

Export Control Handbook for Chemicals (2025 edition)

Control lists included:

*Dual-use trade control, chemical weapons, toxic, hazardous, anti-torture, explosives, narcotics and drugs precursors;
EU Common Military list;
EU restrictive measures.*

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Abstract

Now in its fourth edition, the Export Control Handbook for Chemicals (2025 edition) provides a comprehensive mapping of around 2100 chemicals subject to export controls (restrictions, or prohibitions under sanctions) because of their inclusion in the Chemical Weapons Convention Treaty or under various EU regulations.

This edition compiles updates from the last two years on regulations governing the export of anti-torture, drug precursors and hazardous chemicals together with the recent restrictive measures against Russia, Belarus and Libya. For each chemical, the identification of the customs code has been reported in accordance with the updated Combined Nomenclature that entered into force on 1 January 2025.

The purpose of this handbook is to contribute to the reduction of the proliferation of chemicals that are hazardous in various way, by providing a technical support for the export operators, helping them navigate the complex landscape of export regulations. It is strategic to realise that in the field of international security, effective trade controls depend mostly on the awareness of exporters and their active efforts to comply with trade restrictions. Of course, without forgetting that for operators to be in compliance with the export rules means to limit the risk of mistakes and penalties or even worse consequences. Additionally, the handbook assists public authorities in identifying sensitive chemical transactions, further enhancing regulatory oversight.

In order to achieve this purpose, in the handbook each chemical is correlated with the following data of interest, besides its name: Chemical Abstracts Service (CAS) number, control reference codes, legislation of reference, Customs Union and Statistics (CUS) number and the 8-digit Combined Nomenclature code (CN code) used for declaration purposes at Customs.

Although this handbook contains around 2100 different chemicals, the fact that a chemical is not present in this handbook does not imply that is not under the scope of any export regulations. The handbook is meant to be a helpful guide, but its users are always due to consult the primary legislation and follow its requirements.

Acknowledgements

This fourth revision was produced following the remarkable success of the first three editions of the handbook, also with a view to make it even more useful by updating the information and adding more regulations foreseeing different forms of export controls on chemicals.

We would like to thank the members of the export trade chain (operators, public authorities and customs officials) who have provided precious inputs and encouraged the redaction of this fourth edition of the Handbook.

All the contents are produced with the best possible expertise, but of course feedback, comments and corrections are welcome. Contact email: jrc-strike@ec.europa.eu

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1. Introduction

At the global level, export controls primarily aim to contribute to international peace and security, as well as to prevent the proliferation of weapons of mass destruction (WMD), dual-use goods, and chemical, biological, radiological and nuclear materials.

To prevent the illicit use of these kinds of commodities, a balanced control approach is essential. This often requires the recognition of the possible dual-use applicability for good and technologies and the acknowledging that such items, their components, and raw materials are strategically traded.

Chemistry is a matter particularly touched by the export control. Some common chemicals in our everyday life can be used as explosives and chemical weapons or to synthesize them, posing threats to public health and security.

This handbook contains a list of around 2100 different chemicals subject to export controls (restrictions, or prohibitions under sanctions). They are distributed among 408 different CN codes. However, due to their inclusion in the Chemical Weapons Convention (CWC) and in various EU regulations too, the Handbook counts in total 3700 entries.

The online version includes links to the tables in which the lists of chemical substances are available and arranged by Regulation, Chemical Name, CN code, CAS number and CUS number. In the table arranged by CUS number, each chemical is provided with the direct link to the *European Customs Inventory of Chemical Substances* page.

Users can download the five files in Excel format from the JRC Data Catalogue:

<https://data.jrc.ec.europa.eu/collection/id-00344>

1.1 Why this handbook?

In the export sector, the EU regulations form a complex framework that reflects the variety of the commodities and their range of application (legitimate and illegitimate). The EU Institutions support the compliance of the economic operators and favour the application of common rules by the Member States public authorities through official tools such as guidelines, recommendations and database. This usually occurs for elaborate regulations related for example to the dual-use and military items and the hazardous chemicals.

This handbook aims to be a further tool with the particular aim of collecting the annexes on chemicals of all the export regulations in force; it intends to provide a single reference list capturing the whole picture of export controls on chemicals.

The beneficiaries of this handbook are mainly two communities:

- Economic Operators (exporters) in the chemical sector, including researchers, for whom the handbook is a tool helpful to identify chemicals subject to export controls, supporting compliance with EU regulations and limiting the risk of mistakes and penalties. This community embodies also the exporters of dual-use goods (including chemical precursors, propellants, etc.) composed of industrial manufacturers and suppliers, as well as research institutes and academia. The latter may export “knowledge”, such as technical information, data and know-how of processes, in addition to chemical substances.
- Member States public authorities, in particular:
 - customs officers active in export control and investigation; for whom the handbook can speed up the identification of the chemicals involved in each export regulation and support trade analysis targeting the detection of possible violations of the EU export regulations.
 - authorities in charge of the new Foreign Direct Investment screening (FDI)^{2,3} for whom the handbook can support the evaluation of the dual-use sensitive nature of the chemical production and associated patents; such evaluation is a key step of the risk analysis and the decision process for the authorisation to the acquisition of an EU industrial asset by a third country.

By favouring exporters to follow the necessary procedures and supporting public authorities, the handbook becomes also a valuable tool for protecting citizens from unauthorised exports and illegitimate uses of chemicals. At the same time, the handbook can contribute to safeguarding EU competitiveness, preventing reputational losses and financial penalties to the economic operators, or worse consequences.

² Different authorities in each Member State are in charge of the various areas of export authorisation, but a significant portion may be pertinent to the same authorities in charge of dual-use, military exports, as well as the new Foreign Direct Investment screening (FDI).

³ Regulation (EU) 2019/452 of the European Parliament and of the Council of 19 March 2019 establishing a framework for the screening of foreign direct investments into the Union, <https://eur-lex.europa.eu/eli/reg/2019/452/oj>

1.2. Structure of the handbook

The chemicals listed in the handbook are collected based on the applicable EU regulations controlling them, as well as the Chemical Weapons Convention's schedules.

Each substance is identified by its chemical name (which may not be scientifically unique and of course varies in the different languages) and two other relevant data, very useful to the actors involved in export operations and controls:

- The Combined Nomenclature's 8-digit-code (CN) used for Customs declaration purposes.
- The CAS number, a unique numerical identifier for chemicals.

Furthermore, the accompanying online Excel file contains the CUS (Customs Union and Statistics) code: an 8-digit identifier managed by the European Commission's Directorate-General for Taxation and Customs Union (DG TAXUD). It is part of the *European Customs Inventory of Chemical Substances* (ECICS) ⁴ and is used for customs declarations for goods entering the EU.

In the handbook, for each listed chemical, its triple identification set (chemical name; CAS number; Combined Nomenclature code) is put in correspondence with the reference control code of each regulation considered, as shown in chapter 2.

The three main tools consulted to define systematically each identification set were:

- The Combined Nomenclature (CN)⁵ which is the European customs system for classifying goods. It was created to meet the requirements of both Common Customs Tariff and the EU's external trade statistics. The CN is established based on the World Customs Organization's Harmonized System⁶ and it is annually amended.
- ECICS which is an information tool managed by the European Commission's DG TAXUD which lists chemical names in a number of EU languages along with their tariff classification in the European Community's Combined Nomenclature.
- ECHA CHEM, the European Chemical Agency database⁷, the largest chemicals database in the EU, combining industry-submitted data with information generated through EU regulatory activities (like REACH registrations, classification and labelling inventory and regulatory lists and processes under REACH, CLP, DWD and POPs regulations).

⁴ European Customs Inventory of Chemical Substances, https://taxation-customs.ec.europa.eu/online-services/online-services-and-databases-customs/ecics-european-customs-inventory-chemical-substances_en

⁵ The Combined Nomenclature, https://taxation-customs.ec.europa.eu/customs/calculation-customs-duties/customs-tariff/combined-nomenclature_en

⁶ World Customs Organization, <https://www.wcotradetools.org/en/harmonized-system>

⁷ European Chemicals Agency, <https://chem.echa.europa.eu/>

1.2.1. The Combined Nomenclature code

In the EU, the “Combined Nomenclature (CN)” can indicate the classification tool, described in the previous paragraph, but also the classification code adopted for any customs operation to identify the commodity object of the trade operation.

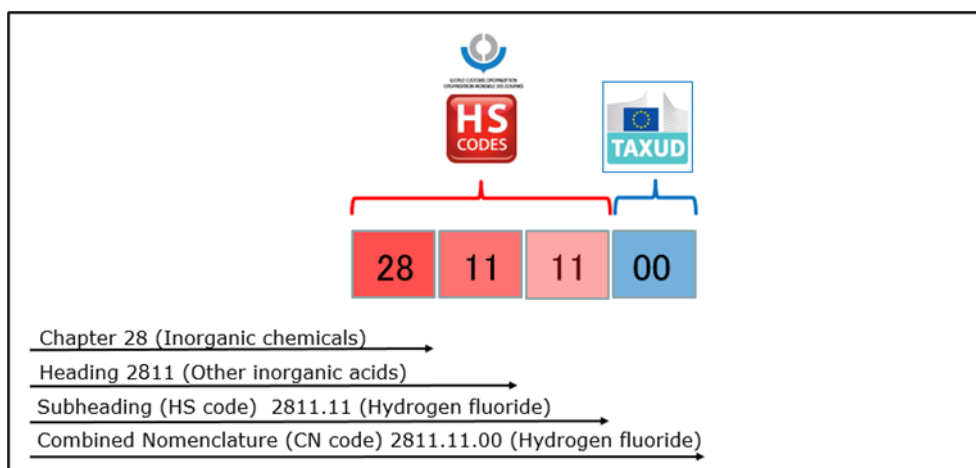
The Combined Nomenclature (CN) code is identified by 8 digits used in the Single Administrative Document (SAD) for Customs declaration purposes.

The eight digits of CN codes are defined as follows:

1. the first six digits shall be the code numbers relating to the headings and subheadings of the Harmonized System (HS) nomenclature;
2. the seventh and eighth digits shall identify the CN subheadings. These two digits constitute the EU-specific subdivisions of the Harmonized System.

The figure below shows an example of how to assign the CN code to a commodity.

Figure 1. Combined Nomenclature code structure (example on the chemical Hydrogen fluoride).



Source: European Commission.

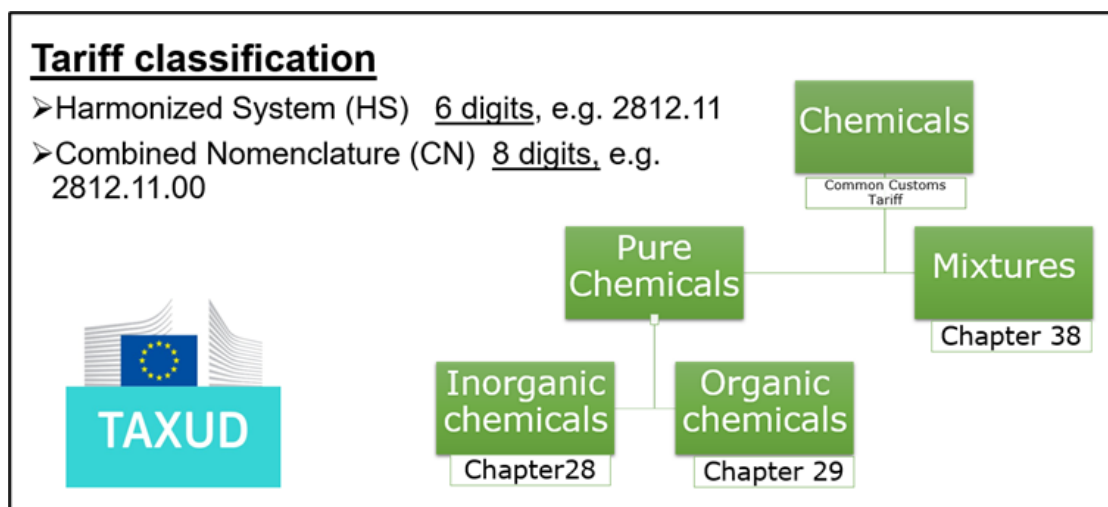
The assignment of the CN codes to each commodity has been decided considering the rules of classification included in the Common Customs Tariff and using the CN codes of the latest version of the Combined Nomenclature, 2025, as a reference.⁸

Chemicals and chemical products are listed in the Section VI of the Harmonized System (Products of the Chemical or Allied Industries) which consists of 11 chapters (from Chapters 28 to 38). However, the chemicals included in this handbook are usually of concern due to their high purity and,

⁸ Commission Implementing Regulation (EU) 2024/2522 of 23 September 2024 amending Annex I to Council Regulation (EEC) No 2658/87 on the tariff and statistical nomenclature and on the Common Customs Tariff, <https://eur-lex.europa.eu/eli/reg/1987/2658/oj/eng>

therefore, the chapters of interest are mainly Chapter 28 for inorganic chemicals and Chapter 29 for organic chemicals (see Figure 2).

Figure 2. Classification of chemical goods in the Common Customs Tariff



Source: European Commission.

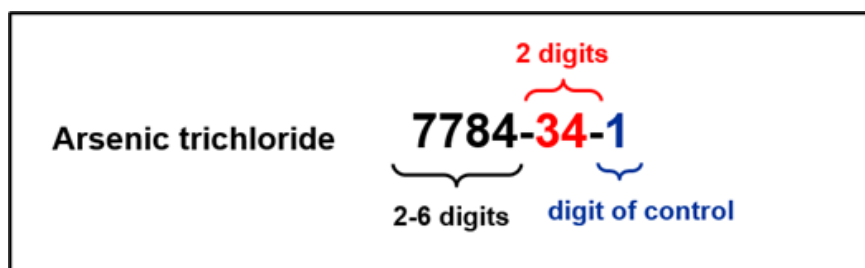
A smaller number of chemicals included in this handbook concern some mixtures of chemicals, named as Miscellaneous chemical products which fall in Chapter 38, as well as a minor number of metals in powder form which follow in Chapters 57 or 81.

1.2.2. The Chemical Abstracts Service (CAS) number

The CAS registry number⁹, or CAS number, is a unique numerical identifier assigned by the Chemical Abstracts Service (CAS) to every chemical substance described in the open scientific literature, including organic and inorganic compounds, minerals, isotopes and alloys.

The CAS number contains up to 10 digits, divided by hyphens into three parts, with the right most one being a check digit (see Figure 3). Regardless how a chemical is named in any language, the CAS number remains always the same.

Figure 3. CAS number structure (example on Arsenic trichloride).



Source: European Commission.

⁹ Chemical Abstract Service; <https://www.cas.org/>

2. Export control regulations in force in the EU

The EU controls the exports of dual-use goods by Regulation (EU) No 2021/821 and amendments, including the EU dual-use control list (Annex I). The regulation, implemented by the Member States and monitored by the European Commission as part of the EU common commercial policy, stems from EU and MS legal and political international commitments, like UNSCR 1540¹⁰, the Nuclear Non-Proliferation Treaty¹¹, the Chemical Weapons Convention and the international export control regimes¹², which all focus on chemical substances, in particular the Australia Group¹³.

The exports of military technology and equipment are covered by the Council Common Position 2008/944/CFSP and the Common Military List of the EU that includes a large set of goods and in particular chemicals. The export of chemicals and the technology for their production are included also in other regulations targeting anti-torture, explosives and drugs precursors. Also, the hazardous chemicals that entail high risk due to its toxicity for human beings, animals, plants or the environment are subject to export controls, under Regulation (EU) No 649/2012 – also known as the Prior Informed Consent (PIC) regulation.

Finally, in extreme circumstances, restrictive measures can be adopted versus third countries to limit or prohibit the trade flow of dual-use and other strategic goods, including chemicals.

The resulting collection of export references included in the handbook is listed below:

- The Chemical Weapons Convention;¹⁴
- Dual-use regulation, (EU) No 2021/821;¹⁵
- Common Military List, 2008/944/CFSP;¹⁶
- Marketing and use of explosives precursors, (EU) No 2019/1148;¹⁷
- Anti-torture regulation, (EU) No 2019/125;¹⁸

¹⁰ United Nations Security Council resolution 1540, <https://digitallibrary.un.org/record/520326?ln=en&v=pdf>

¹¹ Treaty on the Non-Proliferation of Nuclear Weapons (NPT), <https://www.iaea.org/publications/documents/treaties/npt>

¹² Nuclear Suppliers Group; Missile Technology Control Regime; Wassenaar Arrangement and Australia Group.

¹³ The Australia Group (AG), <http://www.australiagroup.net/>

¹⁴ The Chemical Weapons Convention Treaty, <https://www.opcw.org/chemical-weapons-convention/download-convention>

¹⁵ Regulation (EU) 2021/821 of the European Parliament and of the Council of 20 May 2021 setting up a Union regime for the control of exports, brokering, technical assistance, transit and transfer of dual-use items (recast), <https://eur-lex.europa.eu/eli/reg/2021/821/oj>

¹⁶ Common Military List of the European Union adopted by the Council on 24 February 2025 (equipment covered by Council Common Position 2008/944/CFSP defining common rules governing the control of exports of military technology and equipment), <https://eur-lex.europa.eu/eli/C/2025/1499/oj/eng>

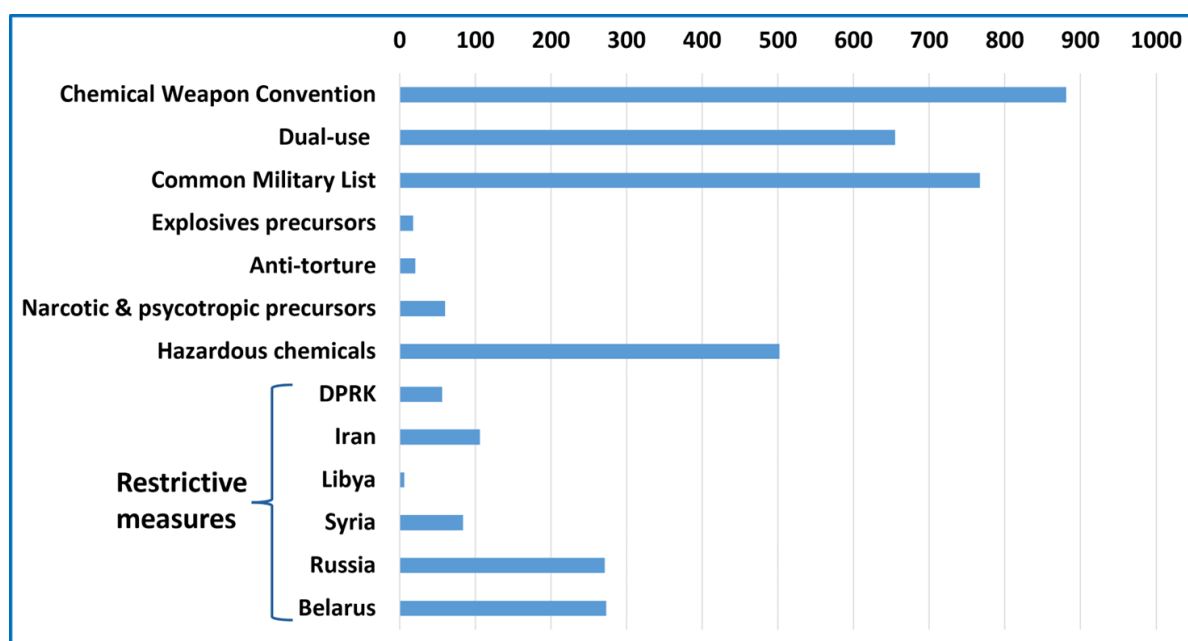
¹⁷ Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013, <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A32019R1148>

¹⁸ Regulation (EU) No 2019/125 of the European Parliament and of the Council of 16 January 2019 concerning trade in certain goods which could be used for capital punishment, torture or other cruel, inhuman or degrading treatment or punishment, <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A02019R0125-20200527&qid=1610983638632>

- Trade in drug precursors (EC) No 111/2005;¹⁹
- Export and import of hazardous chemicals, (EU) No 649/2012;²⁰
- Restrictive measures for the following countries: Democratic People's Republic of Korea (DPRK),²¹ Iran,²² Libya,²³ Syria,²⁴ Russia²⁵ and Belarus²⁶.

Due to overlaps of same chemicals within different regulations, the total number of entries in the handbook is equal to 3700. Figure 4 illustrates their distribution among the different export regulations.

Figure 4. The partition of the chemicals among the export regulations shows the relevance of chemical substances in the arms and dual-use chemicals trade.



Source: European Commission.

¹⁹ Council Regulation (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Union and third countries in drug precursors, <https://eur-lex.europa.eu/eli/reg/2005/111/oj/eng>

²⁰ Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals, <https://eur-lex.europa.eu/eli/reg/2012/649/oj/eng>

²¹ Council Regulation (EU) 2017/1509 of 30 August 2017 concerning restrictive measures against the Democratic People's Republic of Korea and repealing Regulation (EC) No 329/2007, <https://eur-lex.europa.eu/eli/reg/2017/1509/oj/eng>

²² Council Regulation (EU) No 267/2012 of 23 March 2012 concerning restrictive measures against Iran and repealing Regulation (EU) No 961/2010, <https://eur-lex.europa.eu/eli/reg/2012/267/oj/eng>

²³ Council Regulation (EU) 2016/44 of 18 January 2016 concerning restrictive measures in view of the situation in Libya and repealing Regulation (EU) No 204/2011, <https://eur-lex.europa.eu/eli/reg/2016/44/oj/eng>

²⁴ Council Regulation (EU) No 36/2012 of 18 January 2012 concerning restrictive measures in view of the situation in Syria and repealing Regulation (EU) No 442/2011, <https://eur-lex.europa.eu/eli/reg/2012/36/oj/eng>

²⁵ Council Regulation (EU) No 833/2014 of 31 July 2014 concerning restrictive measures in view of Russia's actions destabilising the situation in Ukraine, <https://eur-lex.europa.eu/eli/reg/2014/833/oj/eng>

²⁶ Council Regulation (EC) No 765/2006 of 18 May 2006 concerning restrictive measures against President Lukashenko and certain officials of Belarus, <https://eur-lex.europa.eu/eli/reg/2006/765/oj/eng>

2.1. Chemical Weapons Convention

The Chemical Weapons Convention (CWC) is an arms control treaty of 1993, entered into force in 1997, that outlaws the production, stockpiling, and use of chemical weapons and their precursors and it is administered by the Organisation for the Prohibition of Chemical Weapons (OPCW).²⁷

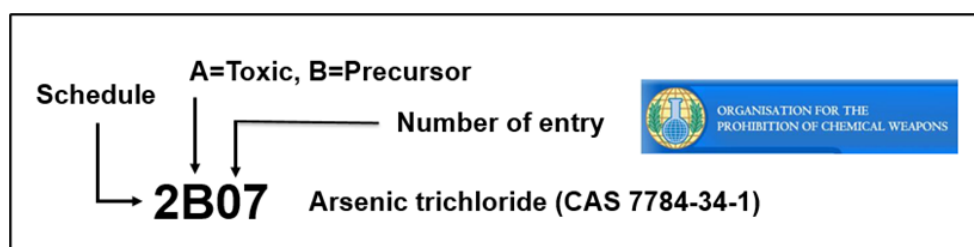
The Convention is comprised of the Annex on chemicals. Here, the chemicals of concern are organised to reflect the risk posed by the chemical to the objectives of the Convention, with decreasing risk across the following three schedules:

- Schedule 1 covers chemicals that possess lethal or incapacitating toxicity and other properties that would enable them to be used as a chemical weapon (Schedule 1A), and their final stage precursors (Schedule 1B). They pose a high risk to the objectives of the Convention and have little or no commercial application.²⁸
- Schedule 2 covers chemicals which are potential chemical warfare agents (Schedule 2A), and other chemical weapons precursors (Schedule 2B). They pose a significant risk to the objectives of the Convention and have moderate level of commercial application.²⁹
- Schedule 3 covers chemicals which had previously been produced, stockpiled or used as a chemical weapon. They pose a risk to the objectives of the Convention by virtue of their relevance in the production of one or more chemicals listed in Schedule 1 or Schedule 2B. Schedule 3 chemicals have widespread commercial application.³⁰

The Schedules of the CWC have only been modified once since the treaty entered in force in 1997. The modification was adopted in November 2019 with the inclusion of four new families of toxic chemicals to the Schedule 1, some of them related to the family of Novichok chemicals.

The CWC classifies chemicals by Schedules and also according to their role either as a toxic chemical (identified with an A) or a chemical precursor (identified with a B), see Figure 5.

Figure 5. Codification of chemicals used by the CWC (example on Arsenic trichloride).



Source: European Commission.

²⁷ Organisation for the Prohibition of Chemical Weapons, <https://www.opcw.org/chemical-weapons-convention>

²⁸ Schedule 1 of the Chemical Weapons Convention, <https://www.opcw.org/chemical-weapons-convention/annexes/annex-chemicals/schedule-1>

²⁹ Schedule 2 of the Chemical Weapons Convention, <https://www.opcw.org/chemical-weapons-convention/annexes/annex-chemicals/schedule-2>

³⁰ Schedule 3 of the Chemical Weapons Convention, <https://www.opcw.org/chemical-weapons-convention/annexes/annex-chemicals/schedule-3>

The OPCW makes available a Declarations Handbook³¹ that serves as guidance for the preparation of declarations to be submitted by States Parties in accordance with the requirements of the Convention. The Declarations Handbook is a nonbinding document which provides practical support to States Parties on how to report the information on declarable facilities and activities, including exports, thereby ensuring that these are effectively brought under the purview of the Convention's verification regime. The following table lists the substances pointed out by the CWC.

Table 1. Chemicals subject to the Chemical Weapons Convention.

Reference	Chemical name	CAS number	CN code ¹
Schedule 1 A01	(1R)-1,2,2-Trimethylpropyl methylphosphonofluoridoate	89254-46-6	2931.59.90
Schedule 1 A01	(1R)-1-Methylheptyl methylphosphonofluoridoate	24753-12-6	2931.59.90
Schedule 1 A01	(1S)-1,2,2-Trimethylpropyl methylphosphonofluoridoate	89254-45-5	2931.59.90
Schedule 1 A01	(1S)-1-Methylheptyl methylphosphonofluoridoate	22925-96-8	2931.59.90
Schedule 1 A01	(2R)-3,3-dimethylbutan-2-yl (R)-methylphosphonofluoridate	22956-47-4	2931.59.90
Schedule 1 A01	(2R)-3,3-dimethylbutan-2-yl (S)-methylphosphonofluoridate	22956-48-5	2931.59.90
Schedule 1 A01	(2S)-3,3-dimethylbutan-2-yl (R)-methylphosphonofluoridate	24753-15-9	2931.59.90
Schedule 1 A01	(2S)-3,3-dimethylbutan-2-yl methylphosphonofluoridate	24753-16-0	2931.59.90
Schedule 1 A01	1,1-Diethyl-2,2-dimethylpropyl methylphosphonofluoridate	159395-78-5	2931.59.90
Schedule 1 A01	1,1-Diethylpropyl methylphosphonofluoridate	959257-62-6	2931.59.90
Schedule 1 A01	1,1-Dimethylpentyl methylphosphonofluoridate	959014-89-2	2931.59.90
Schedule 1 A01	1,1-Dimethylpropyl methylphosphonofluoridoate	159395-77-4	2931.59.90
Schedule 1 A01	1,2,2-Trimethylpropyl ethylphosphonofluoridoate	97931-20-9	2931.59.90
Schedule 1 A01	1,2,2-Trimethylpropyl isopropylphosphonofluoridoate	952104-41-5	2931.59.90
Schedule 1 A01	1,2,2-Trimethylpropyl propylphosphonofluoridoate	952104-35-7	2931.59.90
Schedule 1 A01	1,2-Dimethylbutyl ethylphosphonofluoridoate	1005258-27-4	2931.59.90
Schedule 1 A01	1,2-Dimethylbutyl isopropylphosphonofluoridoate	1005249-16-0	2931.59.90
Schedule 1 A01	1,2-Dimethylbutyl methylphosphonofluoridoate	1005239-89-3	2931.59.90
Schedule 1 A01	1,2-Dimethylpropyl methylphosphonofluoridoate	6154-51-4	2931.59.90

³¹ Declarations Handbook 2013; OPCW; Revised version 3: 1 January 2022, https://www.opcw.org/sites/default/files/documents/2021/12/Declarations%20Handbook%202013%20Revised%20Version%203_0.pdf

Reference	Chemical name	CAS number	CN code ¹
Schedule 1 A01	1,3,3-Trimethylbutyl methylphosphonofluoridoate	30593-65-8	2931.59.90
Schedule 1 A01	1,3-Dimethylbutyl ethylphosphonofluoridoate	345260-86-8	2931.59.90
Schedule 1 A01	1,3-Dimethylbutyl isopropylphosphonofluoridoate	345260-87-9	2931.59.90
Schedule 1 A01	1,3-Dimethylbutyl methylphosphonofluoridoate	352-53-4	2931.59.90
Schedule 1 A01	1,3-Dimethylbutyl propylphosphonofluoridoate	345260-88-0	2931.59.90
Schedule 1 A01	1,4-Dimethylpentyl methylphosphonofluoridoate	199850-62-9	2931.59.90
Schedule 1 A01	1,5-Dimethylhexyl methylphosphonofluoridoate	159395-76-3	2931.59.90
Schedule 1 A01	1-Cyclohexylethyl ethylphosphonofluoridoate	1353011-94-5	2931.59.90
Schedule 1 A01	1-Cyclohexylethyl methylphosphonofluoridoate	1280106-29-7	2931.59.90
Schedule 1 A01	1-Cyclohexylethyl propylphosphonofluoridoate	1280106-32-2	2931.59.90
Schedule 1 A01	1-Ethyl-1-methylpentyl methylphosphonofluoridoate	959098-88-5	2931.59.90
Schedule 1 A01	1-Ethyl-1-methylpropyl methylphosphonofluoridoate	959083-58-0	2931.59.90
Schedule 1 A01	1-Ethyl-2,2-dimethylpropyl ethylphosphonofluoridoate	345260-76-6	2931.59.90
Schedule 1 A01	1-Ethyl-2,2-dimethylpropyl isopropylphosphonofluoridoate	345260-77-7	2931.59.90
Schedule 1 A01	1-Ethyl-2,2-dimethylpropyl methylphosphonofluoridoate	345260-75-5	2931.59.90
Schedule 1 A01	1-Ethyl-2,2-dimethylpropyl propylphosphonofluoridoate	345260-78-8	2931.59.90
Schedule 1 A01	1-Ethyl-2-methylpentyl ethylphosphonofluoridoate	1280106-33-3	2931.59.90
Schedule 1 A01	1-Ethyl-2-methylpentyl methylphosphonofluoridoate	1005240-09-4	2931.59.90
Schedule 1 A01	1-Ethyl-2-methylpentyl propylphosphonofluoridoate	1280106-34-4	2931.59.90
Schedule 1 A01	1-Ethyl-2-methylpropyl ethylphosphonofluoridoate	345260-67-5	2931.59.90
Schedule 1 A01	1-Ethyl-2-methylpropyl isopropylphosphonofluoridoate	345260-68-6	2931.59.90
Schedule 1 A01	1-Ethyl-2-methylpropyl methylphosphonofluoridoate	345260-66-4	2931.59.90
Schedule 1 A01	1-Ethyl-2-methylpropyl propylphosphonofluoridoate	345260-69-7	2931.59.90
Schedule 1 A01	1-Ethylbutyl methylphosphonofluoridoate	959218-68-9	2931.59.90
Schedule 1 A01	1-Ethylhexyl isopropylphosphonofluoridoate	959088-13-2	2931.59.90
Schedule 1 A01	1-Ethylhexyl methylphosphonofluoridoate	1228786-49-9	2931.59.90
Schedule 1 A01	1-Ethylhexyl propylphosphonofluoridoate	959088-14-3	2931.59.90
Schedule 1 A01	1-Ethylpentyl methylphosphonofluoridoate	959098-89-6	2931.59.90
Schedule 1 A01	1-Ethylpropyl ethylphosphonofluoridoate	959086-48-7	2931.59.90

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A01	1-Ethylpropyl methylphosphonofluoridoate	66348-71-8	2931.59.90
Schedule 1 A01	1-Ethylpropyl propylphosphonofluoridoate	959088-15-4	2931.59.90
Schedule 1 A01	1-Isobutyl-3-methylbutyl ethylphosphonofluoridoate	959262-99-8	2931.59.90
Schedule 1 A01	1-Isobutyl-3-methylbutyl methylphosphonofluoridoate	193090-16-3	2931.59.90
Schedule 1 A01	1-Isopropyl-2-methylpropyl ethylphosphonofluoridoate	345260-79-9	2931.59.90
Schedule 1 A01	1-Isopropyl-2-methylpropyl isopropylphosphonofluoridoate	345260-80-2	2931.59.90
Schedule 1 A01	1-Isopropyl-2-methylpropyl methylphosphonofluoridoate	113548-85-9	2931.59.90
Schedule 1 A01	1-Isopropyl-2-methylpropyl propylphosphonofluoridoate	345260-81-3	2931.59.90
Schedule 1 A01	1-Isopropylbutyl ethylphosphonofluoridoate	345260-71-1	2931.59.90
Schedule 1 A01	1-Isopropylbutyl isopropylphosphonofluoridoate	345260-72-2	2931.59.90
Schedule 1 A01	1-Isopropylbutyl methylphosphonofluoridoate	345260-70-0	2931.59.90
Schedule 1 A01	1-Isopropylbutyl propylphosphonofluoridoate	345260-73-3	2931.59.90
Schedule 1 A01	1-Methylbutyl ethylphosphonofluoridoate	333416-09-4	2931.59.90
Schedule 1 A01	1-Methylbutyl isopropylphosphonofluoridoate	333416-37-8	2931.59.90
Schedule 1 A01	1-Methylbutyl methylphosphonofluoridoate	761-93-3	2931.59.90
Schedule 1 A01	1-Methylbutyl propylphosphonofluoridoate	333416-23-2	2931.59.90
Schedule 1 A01	1-Methylheptyl ethylphosphonofluoridoate	468711-98-0	2931.59.90
Schedule 1 A01	1-Methylheptyl isopropylphosphonofluoridoate	468712-09-6	2931.59.90
Schedule 1 A01	1-Methylheptyl methylphosphonofluoridoate	22925-97-9	2931.59.90
Schedule 1 A01	1-Methylheptyl propylphosphonofluoridoate	468712-06-3	2931.59.90
Schedule 1 A01	1-Methylhexyl ethylphosphonofluoridoate	333416-10-7	2931.59.90
Schedule 1 A01	1-Methylhexyl isopropylphosphonofluoridoate	333416-38-9	2931.59.90
Schedule 1 A01	1-Methylhexyl methylphosphonofluoridoate	674-95-3	2931.59.90
Schedule 1 A01	1-Methylhexyl propylphosphonofluoridoate	333416-24-3	2931.59.90
Schedule 1 A01	1-Methylnonyl ethylphosphonofluoridoate	1254104-37-4	2931.59.90
Schedule 1 A01	1-Methylnonyl isopropylphosphonofluoridoate	1280106-25-3	2931.59.90
Schedule 1 A01	1-Methylnonyl methylphosphonofluoridoate	211192-71-1	2931.59.90
Schedule 1 A01	1-Methyloctyl ethylphosphonofluoridoate	333416-11-8	2931.59.90
Schedule 1 A01	1-Methyloctyl isopropylphosphonofluoridoate	333416-39-0	2931.59.90

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A01	1-Methyloctyl methylphosphonofluoridoate	211192-72-2	2931.59.90
Schedule 1 A01	1-Methyloctyl propylphosphonofluoridoate	333416-25-4	2931.59.90
Schedule 1 A01	1-Methylpentyl methylphosphonofluoridoate	13172-12-8	2931.59.90
Schedule 1 A01	1-Propylheptyl ethylphosphonofluoridoate	959217-15-3	2931.59.90
Schedule 1 A01	1-Propylheptyl methylphosphonofluoridoate	959098-86-3	2931.59.90
Schedule 1 A01	2,2-Dimethylpropyl ethylphosphonofluoridoate	959234-06-1	2931.59.90
Schedule 1 A01	2,2-Dimethylpropyl isopropylphosphonofluoridoate	864463-26-3	2931.59.90
Schedule 1 A01	2,2-Dimethylpropyl methylphosphonofluoridoate	372-62-3	2931.59.90
Schedule 1 A01	2,2-Dimethylpropyl propylphosphonofluoridoate	959092-42-3	2931.59.90
Schedule 1 A01	2,3-Dimethylbutyl methylphosphonofluoridoate	83563-66-0	2931.59.90
Schedule 1 A01	2,3-Dimethylcyclohexyl propylphosphonofluoridoate	1280106-35-5	2931.59.90
Schedule 1 A01	2,4,4-Trimethylpentyl ethylphosphonofluoridoate	333416-13-0	2931.59.90
Schedule 1 A01	2,4,4-Trimethylpentyl isopropylphosphonofluoridoate	333416-43-6	2931.59.90
Schedule 1 A01	2,4,4-Trimethylpentyl methylphosphonofluoridoate	333416-06-1	2931.59.90
Schedule 1 A01	2,4,4-Trimethylpentyl propylphosphonofluoridoate	333416-28-7	2931.59.90
Schedule 1 A01	2,6-Dimethylcyclohexyl methylphosphonofluoridoate	1005276-38-9	2931.59.90
Schedule 1 A01	2-Cyclohexylethyl ethylphosphonofluoridoate	959093-03-9	2931.59.90
Schedule 1 A01	2-Cyclohexylethyl methylphosphonofluoridoate	959040-72-3	2931.59.90
Schedule 1 A01	2-Cyclohexylethyl propylphosphonofluoridoate	959004-37-6	2931.59.90
Schedule 1 A01	2-Ethylbutyl methylphosphonofluoridoate	126204-48-6	2931.59.90
Schedule 1 A01	2-Ethylcyclohexyl methylphosphonofluoridoate	1005257-56-6	2931.59.90
Schedule 1 A01	2-Ethylhexyl ethylphosphonofluoridoate	468711-97-9	2931.59.90
Schedule 1 A01	2-Ethylhexyl isopropylphosphonofluoridoate	460091-27-4	2931.59.90
Schedule 1 A01	2-Ethylhexyl methylphosphonofluoridoate	458-71-9	2931.59.90
Schedule 1 A01	2-Ethylhexyl propylphosphonofluoridoate	952104-36-8	2931.59.90
Schedule 1 A01	2-Isopropyl-5-methylcyclohexyl ethylphosphonofluoridoate	1353011-93-4	2931.59.90
Schedule 1 A01	2-Isopropyl-5-methylcyclohexyl isopropylphosphonofluoridoate	1262583-00-5	2931.59.90
Schedule 1 A01	2-Isopropyl-5-methylcyclohexyl methylphosphonofluoridoate	1262582-99-9	2931.59.90
Schedule 1 A01	2-Methylbutyl ethylphosphonofluoridoate	468711-94-6	2931.59.90

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A01	2-Methylbutyl isopropylphosphonofluoridoate	952104-39-1	2931.59.90
Schedule 1 A01	2-Methylbutyl methylphosphonofluoridoate	468711-90-2	2931.59.90
Schedule 1 A01	2-Methylbutyl propylphosphonofluoridoate	468712-02-9	2931.59.90
Schedule 1 A01	2-Methylcyclohexyl ethylphosphonofluoridoate	1353011-76-3	2931.59.90
Schedule 1 A01	2-Methylcyclohexyl methylphosphonofluoridoate	85473-32-1	2931.59.90
Schedule 1 A01	2-Methylcyclopentyl ethylphosphonofluoridoate	1005164-70-4	2931.59.90
Schedule 1 A01	2-Methylcyclopentyl isopropylphosphonofluoridoate	1005176-59-9	2931.59.90
Schedule 1 A01	2-Methylcyclopentyl propylphosphonofluoridoate	1005176-60-2	2931.59.90
Schedule 1 A01	2-Methyloctyl methylphosphonofluoridoate	1228786-50-2	2931.59.90
Schedule 1 A01	2-Methylpentyl ethylphosphonofluoridoate	333416-12-9	2931.59.90
Schedule 1 A01	2-Methylpentyl isopropylphosphonofluoridoate	333416-41-4	2931.59.90
Schedule 1 A01	2-Methylpentyl methylphosphonofluoridoate	333416-05-0	2931.59.90
Schedule 1 A01	2-Methylpentyl propylphosphonofluoridoate	333416-27-6	2931.59.90
Schedule 1 A01	2-Propylpentyl methylphosphonofluoridoate	959089-00-0	2931.59.90
Schedule 1 A01	2-tert-Butylcyclohexyl ethylphosphonofluoridoate	1005254-23-8	2931.59.90
Schedule 1 A01	2-tert-Butylcyclohexyl isopropylphosphonofluoridoate	1005145-75-4	2931.59.90
Schedule 1 A01	2-tert-Butylcyclohexyl methylphosphonofluoridoate	1005247-52-8	2931.59.90
Schedule 1 A01	2-tert-Butylcyclohexyl propylphosphonofluoridoate	1005176-90-8	2931.59.90
Schedule 1 A01	3,3,5,5-Tetramethylcyclohexyl ethylphosphonofluoridoate	333416-68-5	2931.59.90
Schedule 1 A01	3,3,5,5-Tetramethylcyclohexyl isopropylphosphonofluoridoate	333416-76-5	2931.59.90
Schedule 1 A01	3,3,5,5-Tetramethylcyclohexyl methylphosphonofluoridoate	333416-63-0	2931.59.90
Schedule 1 A01	3,3,5,5-Tetramethylcyclohexyl propylphosphonofluoridoate	333416-72-1	2931.59.90
Schedule 1 A01	3,3-Dimethylbutyl methylphosphonofluoridoate	660-21-9	2931.59.90
Schedule 1 A01	3,3-Dimethylbutyl propylphosphonofluoridoate	959004-32-1	2931.59.90
Schedule 1 A01	3,5,5-Trimethylhexyl ethylphosphonofluoridoate	959027-88-4	2931.59.90
Schedule 1 A01	3,5,5-Trimethylhexyl methylphosphonofluoridoate	959304-14-4	2931.59.90
Schedule 1 A01	3,5-Dimethylcyclohexyl ethylphosphonofluoridoate	1353011-80-9	2931.59.90
Schedule 1 A01	3,5-Dimethylcyclohexyl methylphosphonofluoridoate	1005284-61-6	2931.59.90
Schedule 1 A01	3,7-Dimethyloctyl ethylphosphonofluoridoate	345260-83-5	2931.59.90

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A01	3,7-Dimethyloctyl isopropylphosphonofluoridoate	345260-84-6	2931.59.90
Schedule 1 A01	3,7-Dimethyloctyl methylphosphonofluoridoate	345260-82-4	2931.59.90
Schedule 1 A01	3,7-Dimethyloctyl propylphosphonofluoridoate	345260-85-7	2931.59.90
Schedule 1 A01	3-Cyclohexylpropyl ethylphosphonofluoridoate	1353011-91-2	2931.59.90
Schedule 1 A01	3-Cyclohexylpropyl methylphosphonofluoridoate	211192-73-3	2931.59.90
Schedule 1 A01	3-Cyclohexylpropyl propylphosphonofluoridoate	1280106-26-4	2931.59.90
Schedule 1 A01	3-Cyclopentylpropyl ethylphosphonofluoridoate	1353011-87-6	2931.59.90
Schedule 1 A01	3-Methylbutyl ethylphosphonofluoridoate	468711-95-7	2931.59.90
Schedule 1 A01	3-Methylbutyl isopropylphosphonofluoridoate	952104-40-4	2931.59.90
Schedule 1 A01	3-Methylbutyl methylphosphonofluoridoate	22107-46-6	2931.59.90
Schedule 1 A01	3-Methylbutyl propylphosphonofluoridoate	468712-03-0	2931.59.90
Schedule 1 A01	3-Methylcyclohexyl ethylphosphonofluoridoate	333416-64-1	2931.59.90
Schedule 1 A01	3-Methylcyclohexyl isopropylphosphonofluoridoate	333416-73-2	2931.59.90
Schedule 1 A01	3-Methylcyclohexyl methylphosphonofluoridoate	113548-86-0	2931.59.90
Schedule 1 A01	3-Methylcyclohexyl propylphosphonofluoridoate	333416-69-6	2931.59.90
Schedule 1 A01	3-Methylcyclopentyl ethylphosphonofluoridoate	1280106-36-6	2931.59.90
Schedule 1 A01	3-Methylpentyl ethylphosphonofluoridoate	959263-01-5	2931.59.90
Schedule 1 A01	3-Methylpentyl methylphosphonofluoridoate	199850-60-7	2931.59.90
Schedule 1 A01	4-Ethylcyclohexyl ethylphosphonofluoridoate	333416-65-2	2931.59.90
Schedule 1 A01	4-Ethylcyclohexyl isopropylphosphonofluoridoate	333416-74-3	2931.59.90
Schedule 1 A01	4-Ethylcyclohexyl methylphosphonofluoridoate	333416-60-7	2931.59.90
Schedule 1 A01	4-Ethylcyclohexyl propylphosphonofluoridoate	333416-70-9	2931.59.90
Schedule 1 A01	4-Methylcyclohexyl ethylphosphonofluoridoate	468711-96-8	2931.59.90
Schedule 1 A01	4-Methylcyclohexyl isopropylphosphonofluoridoate	468712-08-5	2931.59.90
Schedule 1 A01	4-Methylcyclohexyl methylphosphonofluoridoate	113548-87-1	2931.59.90
Schedule 1 A01	4-Methylpentyl ethylphosphonofluoridoate	959276-46-1	2931.59.90
Schedule 1 A01	4-Methylpentyl methylphosphonofluoridoate	959010-20-9	2931.59.90
Schedule 1 A01	4-tert-Butylcyclohexyl ethylphosphonofluoridoate	959217-22-2	2931.59.90
Schedule 1 A01	4-tert-Butylcyclohexyl methylphosphonofluoridoate	959245-06-8	2931.59.90

Reference	Chemical name	CAS number	CN code ¹
Schedule 1 A01	4-tert-Butylcyclohexyl propylphosphonofluoridoate	959004-03-6	2931.59.90
Schedule 1 A01	Butyl ethylphosphonofluoridoate	18358-34-4	2931.59.90
Schedule 1 A01	Butyl isopropylphosphonofluoridoate	333416-30-1	2931.59.90
Schedule 1 A01	Butyl methylphosphonofluoridoate	352-63-6	2931.59.90
Schedule 1 A01	Butyl propylphosphonofluoridoate	333416-16-3	2931.59.90
Schedule 1 A01	Cyclobutyl ethylphosphonofluoridoate	345239-03-4	2931.59.90
Schedule 1 A01	Cyclobutyl isopropylphosphonofluoridoate	345239-04-5	2931.59.90
Schedule 1 A01	Cyclobutyl methylphosphonofluoridoate	14618-04-3	2931.59.90
Schedule 1 A01	Cyclobutyl propylphosphonofluoridoate	345239-05-6	2931.59.90
Schedule 1 A01	Cyclobutyl propylphosphonofluoridoate	345239-05-6	2931.59.90
Schedule 1 A01	Cycloheptyl ethylphosphonofluoridoate	345239-09-0	2931.59.90
Schedule 1 A01	Cycloheptyl isopropylphosphonofluoridoate	345239-10-3	2931.59.90
Schedule 1 A01	Cycloheptyl methylphosphonofluoridoate	7284-83-5	2931.59.90
Schedule 1 A01	Cycloheptyl propylphosphonofluoridoate	345239-11-4	2931.59.90
Schedule 1 A01	Cyclohexyl ethylphosphonofluoridoate	7284-84-6	2931.59.90
Schedule 1 A01	Cyclohexyl isopropylphosphonofluoridoate	333416-55-0	2931.59.90
Schedule 1 A01	Cyclohexyl methylphosphonofluoridoate	329-99-7	2931.59.90
Schedule 1 A01	Cyclohexyl propylphosphonofluoridoate	28364-21-8	2931.59.90
Schedule 1 A01	Cyclohexylmethyl ethylphosphonofluoridoate	959093-05-1	2931.59.90
Schedule 1 A01	Cyclohexylmethyl isopropylphosphonofluoridoate	959004-34-3	2931.59.90
Schedule 1 A01	Cyclohexylmethyl methylphosphonofluoridoate	959019-47-7	2931.59.90
Schedule 1 A01	Cyclohexylmethyl propylphosphonofluoridoate	959025-93-5	2931.59.90
Schedule 1 A01	Cyclooctyl ethylphosphonofluoridoate	345239-12-5	2931.59.90
Schedule 1 A01	Cyclooctyl isopropylphosphonofluoridoate	345239-13-6	2931.59.90
Schedule 1 A01	Cyclooctyl methylphosphonofluoridoate	14719-38-1	2931.59.90
Schedule 1 A01	Cyclooctyl propylphosphonofluoridoate	345239-14-7	2931.59.90
Schedule 1 A01	Cyclopentyl ethylphosphonofluoridoate	345239-06-7	2931.59.90
Schedule 1 A01	Cyclopentyl isopropylphosphonofluoridoate	345239-07-8	2931.59.90
Schedule 1 A01	Cyclopentyl methylphosphonofluoridoate	7284-82-4	2931.59.90

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A01	Cyclopentyl propylphosphonofluoridoate	345239-08-9	2931.59.90
Schedule 1 A01	Cyclopentylmethyl ethylphosphonofluoridate	1353011-72-9	2931.59.90
Schedule 1 A01	Decyl ethylphosphonofluoridoate	333416-08-3	2931.59.90
Schedule 1 A01	Decyl isopropylphosphonofluoridoate	333416-36-7	2931.59.90
Schedule 1 A01	Decyl methylphosphonofluoridoate	193090-25-4	2931.59.90
Schedule 1 A01	Decyl propylphosphonofluoridoate	333416-22-1	2931.59.90
Schedule 1 A01	Ethyl ethylphosphonofluoridoate	650-20-4	2931.59.90
Schedule 1 A01	Ethyl isopropylphosphonofluoridoate	1426-08-0	2931.59.90
Schedule 1 A01	Ethyl methylphosphonofluoridoate	673-97-2	2931.59.90
Schedule 1 A01	Ethyl propylphosphonofluoridoate	333416-15-2	2931.59.90
Schedule 1 A01	Heptyl ethylphosphonofluoridoate	162085-85-0	2931.59.90
Schedule 1 A01	Heptyl isopropylphosphonofluoridoate	333416-33-4	2931.59.90
Schedule 1 A01	Heptyl methylphosphonofluoridate	62085-82-7	2931.59.90
Schedule 1 A01	Heptyl methylphosphonofluoridoate	162085-82-7	2931.59.90
Schedule 1 A01	Heptyl propylphosphonofluoridoate	333416-19-6	2931.59.90
Schedule 1 A01	Hexyl ethylphosphonofluoridoate	135445-19-1	2931.59.90
Schedule 1 A01	Hexyl isopropylphosphonofluoridoate	333416-32-3	2931.59.90
Schedule 1 A01	Hexyl methylphosphonofluoridoate	113548-89-3	2931.59.90
Schedule 1 A01	Hexyl propylphosphonofluoridoate	333416-18-5	2931.59.90
Schedule 1 A01	Isobutyl ethylphosphonofluoridoate	2261-83-8	2931.59.90
Schedule 1 A01	Isobutyl isopropylphosphonofluoridoate	333416-40-3	2931.59.90
Schedule 1 A01	Isobutyl methylphosphonofluoridoate	2053-81-8	2931.59.90
Schedule 1 A01	Isobutyl propylphosphonofluoridoate	333416-26-5	2931.59.90
Schedule 1 A01	Isopropyl ethylphosphonofluoridoate	1189-87-3	2931.59.90
Schedule 1 A01	Isopropyl isopropylphosphonofluoridoate	665-33-8	2931.59.90
Schedule 1 A01	Isopropyl propylphosphonofluoridoate	18358-37-7	2931.59.90
Schedule 1 A01	Methyl ethylphosphonofluoridoate	665-03-2	2931.59.90
Schedule 1 A01	Methyl isopropylphosphonofluoridoate	648-59-9	2931.59.90
Schedule 1 A01	Methyl methylphosphonofluoridoate	353-88-8	2931.59.90

Reference	Chemical name	CAS number	CN code ¹
Schedule 1 A01	Methyl propylphosphonofluoridoate	333416-14-1	2931.59.90
Schedule 1 A01	Nonyl ethylphosphonofluoridoate	171741-07-4	2931.59.90
Schedule 1 A01	Nonyl isopropylphosphonofluoridoate	333416-35-6	2931.59.90
Schedule 1 A01	Nonyl methylphosphonofluoridoate	211192-74-4	2931.59.90
Schedule 1 A01	Nonyl propylphosphonofluoridoate	333416-21-0	2931.59.90
Schedule 1 A01	Octyl ethylphosphonofluoridoate	333416-07-2	2931.59.90
Schedule 1 A01	Octyl isopropylphosphonofluoridoate	333416-34-5	2931.59.90
Schedule 1 A01	Octyl methylphosphonofluoridoate	144313-52-0	2931.59.90
Schedule 1 A01	Octyl propylphosphonofluoridoate	333416-20-9	2931.59.90
Schedule 1 A01	O-Isopropyl methylphosphonofluoridate; Sarin (GB)	107-44-8	2931.59.90
Schedule 1 A01	O-Pinacolyl methylphosphonofluoridate; Soman (GD)	96-64-0	2931.59.90
Schedule 1 A01	Pentyl ethylphosphonofluoridoate	162085-84-9	2931.59.90
Schedule 1 A01	Pentyl isopropylphosphonofluoridoate	333416-31-2	2931.59.90
Schedule 1 A01	Pentyl methylphosphonofluoridoate	13454-59-6	2931.59.90
Schedule 1 A01	Pentyl propylphosphonofluoridoate	333416-17-4	2931.59.90
Schedule 1 A01	Propyl ethylphosphonofluoridoate	2992-95-2	2931.59.90
Schedule 1 A01	Propyl isopropylphosphonofluoridoate	333416-29-8	2931.59.90
Schedule 1 A01	Propyl methylphosphonofluoridoate	763-14-4	2931.59.90
Schedule 1 A01	Propyl propylphosphonofluoridoate	18358-36-6	2931.59.90
Schedule 1 A01	sec-Butyl ethylphosphonofluoridoate	162085-83-8	2931.59.90
Schedule 1 A01	sec-Butyl isopropylphosphonofluoridoate	468712-07-4	2931.59.90
Schedule 1 A01	sec-Butyl methylphosphonofluoridoate	352-52-3	2931.59.90
Schedule 1 A01	sec-Butyl propylphosphonofluoridoate	468712-01-8	2931.59.90
Schedule 1 A01	tert-Butyl methylphosphonofluoridoate	13273-12-6	2931.59.90
Schedule 1 A02	1,1,2-Trimethylpropyl N,N-diethylphosphoramidocyanidate	1256572-25-4	2931.49.80
Schedule 1 A02	1,1,2-Trimethylpropyl N,N-diisopropylphosphoramidocyanidate	1256634-75-9	2931.49.80
Schedule 1 A02	1,1,2-Trimethylpropyl N,N-dimethylphosphoramidocyanidate	1256634-77-1	2931.49.80
Schedule 1 A02	1,1,2-Trimethylpropyl N,N-dipropylphosphoramidocyanidate	1253782-51-2	2931.49.80

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A02	1,1,2-Trimethylpropyl N-propyl-N-isopropylphosphoramidocyanidate	1256634-76-0	2931.49.80
Schedule 1 A02	1,2-Dimethylpropyl N,N-diisopropylphosphoramidocyanidate	1256634-86-2	2931.49.80
Schedule 1 A02	1,3-Dimethylbutyl N,N-diisopropylphosphoramidocyanidate	1256572-10-7	2931.49.80
Schedule 1 A02	1-Cyclohexylethyl N,N-diisopropylphosphoramidocyanidate	1256572-20-9	2931.49.80
Schedule 1 A02	1-Ethylbutyl N,N-diisopropylphosphoramidocyanidate	1256634-91-9	2931.49.80
Schedule 1 A02	1-Ethylhexyl N,N-diethylphosphoramidocyanidate	1256572-21-0	2931.49.80
Schedule 1 A02	1-Ethylhexyl N,N-diisopropylphosphoramidocyanidate	1256572-22-1	2931.49.80
Schedule 1 A02	1-Ethylhexyl N,N-dimethylphosphoramidocyanidate	1253782-49-8	2931.49.80
Schedule 1 A02	1-Ethylhexyl N,N-dipropylphosphoramidocyanidate	1256572-24-3	2931.49.80
Schedule 1 A02	1-Ethylhexyl N-isopropyl-N-propylphosphoramidocyanidate	1256572-23-2	2931.49.80
Schedule 1 A02	1-Ethylpentyl N,N-diisopropylphosphoramidocyanidate	1256634-84-0	2931.49.80
Schedule 1 A02	1-Isopropyl-2-methylpentyl N-isopropyl-N-propylphosphoramidocyanidate	1311200-15-3	2931.49.80
Schedule 1 A02	1-Isopropyl-2-methylpropyl N,N-diethylphosphoramidocyanidate	1256634-87-3	2931.49.80
Schedule 1 A02	1-Isopropyl-2-methylpropyl N,N-diisopropylphosphoramidocyanidate	1256634-88-4	2931.49.80
Schedule 1 A02	1-Isopropyl-2-methylpropyl N,N-dimethylphosphoramidocyanidate	1256634-89-5	2931.49.80
Schedule 1 A02	1-Isopropyl-2-methylpropyl N,N-dipropylphosphoramidocyanidate	1256634-90-8	2931.49.80
Schedule 1 A02	1-Isopropyl-2-methylpropyl N-isopropyl-Npropylphosphoramidocyanidate	1252610-36-8	2931.49.80
Schedule 1 A02	1-Methylbutyl N,N-diisopropylphosphoramidocyanidate	1311200-13-1	2931.49.80
Schedule 1 A02	1-Methylheptyl N,N-diisopropylphosphoramidocyanidate	1254103-95-1	2931.49.80
Schedule 1 A02	1-Methylhexyl N,N-dimethylphosphoramidocyanidate	1311200-08-4	2931.49.80
Schedule 1 A02	1-Methylhexyl N-methyl-N-propylphosphoramidocyanidate	1311200-11-9	2931.49.80
Schedule 1 A02	1-Methylnonyl N-methyl-N-propylphosphoramidocyanidate	1311200-10-8	2931.49.80
Schedule 1 A02	1-Methylpentyl N,N-diethylphosphoramidocyanidate	1252610-35-7	2931.49.80
Schedule 1 A02	1-Methylpentyl N,N-dimethylphosphoramidocyanidate	1311200-07-3	2931.49.80
Schedule 1 A02	2,2-Dimethylpropyl N,N-diisopropylphosphoramidocyanidate	1253782-83-0	2931.49.80

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A02	2,2-Dimethylpropyl N-isopropyl-N-propylphosphoramidocyanidate	1253782-84-1	2931.49.80
Schedule 1 A02	2,6-Dimethylcyclohexyl N,N-diethylphosphoramidocyanidate	1256634-80-6	2931.49.80
Schedule 1 A02	2,6-Dimethylcyclohexyl N,N-diisopropylphosphoramidocyanidate	1256634-81-7	2931.49.80
Schedule 1 A02	2,6-Dimethylcyclohexyl N,N-dimethylphosphoramidocyanidate	1256634-83-9	2931.49.80
Schedule 1 A02	2,6-Dimethylcyclohexyl N,Ndipropylphosphoramidocyanidate	1252610-38-0	2931.49.80
Schedule 1 A02	2,6-Dimethylcyclohexyl N-isopropyl-N-propylphosphoramidocyanidate	1256634-82-8	2931.49.80
Schedule 1 A02	2-Cyclohexylethyl diisopropylphosphoramidocyanidoate	959231-14-2	2931.49.80
Schedule 1 A02	2-Cyclohexylethyl dipropylphosphoramidocyanidoate	959304-98-4	2931.49.80
Schedule 1 A02	2-Ethylhexyl N,N-dimethylphosphoramidocyanidate	1311200-06-2	2931.49.80
Schedule 1 A02	2-Methylcyclohexyl N,N-diisopropylphosphoramidocyanidate	1256634-85-1	2931.49.80
Schedule 1 A02	2-Methylpentyl N-ethyl-N-methylphosphoramidocyanidate	1311200-09-5	2931.49.80
Schedule 1 A02	Butyl diethylphosphoramidocyanidoate	870124-31-5	2931.49.80
Schedule 1 A02	Butyl dimethylphosphoramidocyanidoate	162085-87-2	2931.49.80
Schedule 1 A02	Butyl dipropylphosphoramidocyanidate	870124-35-9	2931.49.80
Schedule 1 A02	Butyl ethylmethylphosphoramidocyanidoate	870124-03-1	2931.49.80
Schedule 1 A02	Butyl isopropylmethylphosphoramidocyanidoate	870124-14-4	2931.49.80
Schedule 1 A02	Butyl isopropylpropylphosphoramidocyanidoate	870124-28-0	2931.49.80
Schedule 1 A02	Butyl N,N-diisopropylphosphoramidocyanidate	1253782-71-6	2931.49.80
Schedule 1 A02	Butyl N-ethyl-N-isopropylphosphoramidocyanidate	1256571-96-6	2931.49.80
Schedule 1 A02	Butyl N-ethyl-N-propylphosphoramidocyanidate	1256571-97-7	2931.49.80
Schedule 1 A02	Butyl N-methyl-N-propylphosphoramidocyanidate	1253782-74-9	2931.49.80
Schedule 1 A02	Cycloheptyl diisopropylphosphoramidocyanidoate	959299-72-0	2931.49.80
Schedule 1 A02	Cycloheptyl dipropylphosphoramidocyanidoate	959220-92-9	2931.49.80
Schedule 1 A02	Cycloheptyl N,N-diethylphosphoramidocyanidate	1256634-78-2	2931.49.80
Schedule 1 A02	Cycloheptyl N,N-dimethylphosphoramidocyanidate	1256634-79-3	2931.49.80
Schedule 1 A02	Cyclohexyl N,N-diethylphosphoramidocyanidate	1256572-11-8	2931.49.80
Schedule 1 A02	Cyclohexyl N,N-dimethylphosphoramidocyanidate	1256572-12-9	2931.49.80

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A02	Cyclohexyl N,N-dipropylphosphoramidocyanidate	1256572-13-0	2931.49.80
Schedule 1 A02	Cyclohexyl N-isopropyl-N-propylphosphoramidocyanidate	1253782-35-2	2931.49.80
Schedule 1 A02	Cyclohexylmethyl dipropylphosphoramidocyanidoate	959285-51-9	2931.49.80
Schedule 1 A02	Cyclooctyl diisopropylphosphoramidocyanidoate	959299-70-8	2931.49.80
Schedule 1 A02	Cyclooctyl dipropylphosphoramidocyanidoate	959220-91-8	2931.49.80
Schedule 1 A02	Cyclooctyl N,N-dimethylphosphoramidocyanidate	1256634-94-2	2931.49.80
Schedule 1 A02	Cyclopentyl dipropylphosphoramidocyanidoate	959305-00-1	2931.49.80
Schedule 1 A02	Decyl N,N-diisopropylphosphoramidocyanidate	1256572-18-5	2931.49.80
Schedule 1 A02	Decyl N-isopropyl-N-propylphosphoramidocyanidate	1256572-19-6	2931.49.80
Schedule 1 A02	Ethyl diethylphosphoramidocyanidoate	63815-60-1	2931.49.80
Schedule 1 A02	Ethyl diisopropylphosphoramidocyanidoate	870124-37-1	2931.49.80
Schedule 1 A02	Ethyl dipropylphosphoramidocyanidoate	870124-33-7	2931.49.80
Schedule 1 A02	Ethyl ethylisopropylphosphoramidocyanidoate	870124-22-4	2931.49.80
Schedule 1 A02	Ethyl ethylmethylphosphoramidocyanidoate	870124-00-8	2931.49.80
Schedule 1 A02	Ethyl ethylpropylphosphoramidocyanidoate	870124-17-7	2931.49.80
Schedule 1 A02	Ethyl isopropylmethylphosphoramidocyanidoate	870124-11-1	2931.49.80
Schedule 1 A02	Ethyl isopropylpropylphosphoramidocyanidoate	870124-26-8	2931.49.80
Schedule 1 A02	Ethyl methylpropylphosphoramidocyanidoate	870124-07-5	2931.49.80
Schedule 1 A02	Ethyl N,N-Dimethylphosphoramidocyanidate; Tabun (GA)	77-81-6	2931.49.80
Schedule 1 A02	Ethyl N-isopropyl-N-propylphosphoramidocyanidate	870124-26-8	2931.49.80
Schedule 1 A02	Heptyl diisopropylphosphoramidocyanidoate	959231-41-5	2931.49.80
Schedule 1 A02	Heptyl dimethylphosphoramidocyanidoate	162085-91-8	2931.49.80
Schedule 1 A02	Heptyl dipropylphosphoramidocyanidoate	959304-97-3	2931.49.80
Schedule 1 A02	Heptyl N,N-diethylphosphoramidocyanidate	870124-32-6	2931.49.80
Schedule 1 A02	Hexyl diisopropylphosphoramidocyanidoate	870124-39-3	2931.49.80
Schedule 1 A02	Hexyl dimethylphosphoramidocyanidoate	162085-90-7	2931.49.80
Schedule 1 A02	Hexyl methylpropylphosphoramidocyanidoate	870124-10-0	2931.49.80
Schedule 1 A02	Hexyl N,N-dipropylphosphoramidocyanidate	870124-36-0	2931.49.80
Schedule 1 A02	Hexyl N-ethyl-N-isopropylphosphoramidocyanidate	870124-25-7	2931.49.80

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A02	Hexyl N-ethyl-N-methylphosphoramidocyanidate	870124-06-4	2931.49.80
Schedule 1 A02	Hexyl N-ethyl-N-propylphosphoramidocyanidate	870124-21-3	2931.49.80
Schedule 1 A02	Isobutyl diisopropylphosphoramidocyanidoate	870124-38-2	2931.49.80
Schedule 1 A02	Isobutyl dimethylphosphoramidocyanidoate	162085-88-3	2931.49.80
Schedule 1 A02	Isobutyl ethylisopropylphosphoramidocyanidoate	870124-23-5	2931.49.80
Schedule 1 A02	Isobutyl ethylmethylphosphoramidocyanidoate	870124-04-2	2931.49.80
Schedule 1 A02	Isobutyl ethylpropylphosphoramidocyanidoate	870124-19-9	2931.49.80
Schedule 1 A02	Isobutyl N,N-diethylphosphoramidocyanidate	1253782-85-2	2931.49.80
Schedule 1 A02	Isobutyl N,N-dipropylphosphoramidocyanidate	1281955-89-2	2931.49.80
Schedule 1 A02	Isobutyl N-isopropyl-N-methylphosphoramidocyanidate	1281955-87-0	2931.49.80
Schedule 1 A02	Isobutyl N-isopropyl-N-propylphosphoramidocyanidate	1281955-88-1	2931.49.80
Schedule 1 A02	Isobutyl N-methyl-N-propylphosphoramidocyanidate	1253782-86-3	2931.49.80
Schedule 1 A02	Isopropyl diethylphosphoramidocyanidoate	870124-30-4	2931.49.80
Schedule 1 A02	Isopropyl dimethylphosphoramidocyanidoate	63815-55-4	2931.49.80
Schedule 1 A02	Isopropyl ethylmethylphosphoramidocyanidoate	870124-02-0	2931.49.80
Schedule 1 A02	Isopropyl ethylpropylphosphoramidocyanidoate	870124-18-8	2931.49.80
Schedule 1 A02	Isopropyl isopropylmethylphosphoramidocyanidoate	870124-12-2	2931.49.80
Schedule 1 A02	Isopropyl methylpropylphosphoramidocyanidoate	870124-08-6	2931.49.80
Schedule 1 A02	Isopropyl N,N-diisopropylphosphoramidocyanidate	1252610-37-9	2931.49.80
Schedule 1 A02	Isopropyl N,N-dipropylphosphoramidocyanidate	1256634-93-1	2931.49.80
Schedule 1 A02	Isopropyl N-ethyl-N-isopropylphosphoramidocyanidate	1253782-69-2	2931.49.80
Schedule 1 A02	Isopropyl N-isopropyl-N-propylphosphoramidocyanidate	1256634-92-0	2931.49.80
Schedule 1 A02	Methyl diethylphosphoramidocyanidoate	870124-43-9	2931.49.80
Schedule 1 A02	Methyl diisopropylphosphoramidocyanidoate	870124-47-3	2931.49.80
Schedule 1 A02	Methyl dimethylphosphoramidocyanidoate	63815-56-5	2931.49.80
Schedule 1 A02	Methyl dipropylphosphoramidocyanidoate	870124-46-2	2931.49.80
Schedule 1 A02	Methyl ethylmethylphosphoramidocyanidoate	870124-40-6	2931.49.80
Schedule 1 A02	Methyl ethylpropylphosphoramidocyanidoate	870124-45-1	2931.49.80
Schedule 1 A02	Methyl isopropylmethylphosphoramidocyanidoate	870124-42-8	2931.49.80

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A02	Methyl isopropylpropylphosphoramidocyanidoate	870124-48-4	2931.49.80
Schedule 1 A02	Methyl methylpropylphosphoramidocyanidoate	870124-41-7	2931.49.80
Schedule 1 A02	Methyl N-ethyl-N-isopropylphosphoramidocyanidate	870124-44-0	2931.49.80
Schedule 1 A02	Nonyl N-isopropyl-N-methylphosphoramidocyanidate	1311200-12-0	2931.49.80
Schedule 1 A02	Octyl N,N-diethylphosphoramidocyanidate	1256572-14-1	2931.49.80
Schedule 1 A02	Octyl N,N-diisopropylphosphoramidocyanidate	1256572-15-2	2931.49.80
Schedule 1 A02	Octyl N,N-dimethylphosphoramidocyanidate	1253782-45-4	2931.49.80
Schedule 1 A02	Octyl N,N-dipropylphosphoramidocyanidate	1256572-17-4	2931.49.80
Schedule 1 A02	Octyl N-isopropyl-N-propylphosphoramidocyanidate	1256572-16-3	2931.49.80
Schedule 1 A02	Pentyl diisopropylphosphoramidocyanidate	959231-39-1	2931.49.80
Schedule 1 A02	Pentyl dimethylphosphoramidocyanidoate	148461-87-4	2931.49.80
Schedule 1 A02	Pentyl dipropylphosphoramidocyanidate	959014-75-6	2931.49.80
Schedule 1 A02	Pentyl N-ethyl-N-isopropylphosphoramidocyanidate	870124-24-6	2931.49.80
Schedule 1 A02	Pentyl N-ethyl-N-methylphosphoramidocyanidate	870124-05-3	2931.49.80
Schedule 1 A02	Pentyl N-ethyl-N-propylphosphoramidocyanidate	870124-20-2	2931.49.80
Schedule 1 A02	Pentyl N-isopropyl-N-methylphosphoramidocyanidate	870124-15-5	2931.49.80
Schedule 1 A02	Pinacolyl N,N-dipropylphosphoramidocyanidate	1311200-14-2	2931.49.80
Schedule 1 A02	Propyl diisopropylphosphoramidocyanidoate	959231-16-4	2931.49.80
Schedule 1 A02	Propyl dimethylphosphoramidocyanidoate	162085-86-1	2931.49.80
Schedule 1 A02	Propyl dipropylphosphoramidocyanidoate	870124-34-8	2931.49.80
Schedule 1 A02	Propyl ethylmethylphosphoramidocyanidoate	870124-01-9	2931.49.80
Schedule 1 A02	Propyl isopropylmethylphosphoramidocyanidoate	870124-13-3	2931.49.80
Schedule 1 A02	Propyl isopropylpropylphosphoramidocyanidoate	870124-27-9	2931.49.80
Schedule 1 A02	Propyl N,N-diethylphosphoramidocyanidate	1256571-92-2	2931.49.80
Schedule 1 A02	Propyl N-ethyl-N-isopropylphosphoramidocyanidate	1256571-93-3	2931.49.80
Schedule 1 A02	Propyl N-ethyl-N-propylphosphoramidocyanidate	1256571-94-4	2931.49.80
Schedule 1 A02	Propyl N-isopropyl-N-propylphosphoramidocyanidate	870124-27-9	2931.49.80
Schedule 1 A02	Propyl N-methyl-N-propylphosphoramidocyanidate	1256571-95-5	2931.49.80
Schedule 1 A02	sec-Butyl dimethylphosphoramidocyanidoate	162085-89-4	2931.49.80

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A02	sec-Butyl methylpropylphosphoramidocyanidoate	870124-09-7	2931.49.80
Schedule 1 A02	sec-Butyl N,N-diethylphosphoramidocyanidate	1281955-92-7	2931.49.80
Schedule 1 A02	sec-Butyl N,N-diisopropylphosphoramidocyanidate	1281955-95-0	2931.49.80
Schedule 1 A02	sec-Butyl N,N-dipropylphosphoramidocyanidate	1281955-98-3	2931.49.80
Schedule 1 A02	sec-Butyl N-ethyl-N-isopropylphosphoramidocyanidate	1281955-93-8	2931.49.80
Schedule 1 A02	sec-Butyl N-ethyl-N-methylphosphoramidocyanidate	1281955-94-9	2931.49.80
Schedule 1 A02	sec-Butyl N-isopropyl-N-methylphosphoramidocyanidate	1281955-96-1	2931.49.80
Schedule 1 A02	sec-Butyl N-isopropyl-N-propylphosphoramidocyanidate	1281955-97-2	2931.49.80
Schedule 1 A03	(R)-2-[[Isopropoxy(methyl)phosphoryl]thio]-N,N,N-trimethylethanaminium iodide	26348-71-0	2930.90.95
Schedule 1 A03	(R)-Cyclohexyl S-2-dimethylaminoethyl methylphosphonothioate	1220982-69-3	2930.90.95
Schedule 1 A03	(R)-Cyclopentyl S-2-diisopropylaminoethyl methylphosphonothioate	102490-57-3	2930.90.95
Schedule 1 A03	(R)-Ethyl S-2-diethylaminoethyl ethylphosphonothioate	1187548-77-1	2930.90.95
Schedule 1 A03	(R)-Ethyl S-2-diethylaminoethyl methylphosphonothioate	1187548-81-7	2930.90.95
Schedule 1 A03	(R)-O-Ethyl S-[2-(diisopropylamino)ethyl] methylphosphonothioate	65167-63-7	2930.90.95
Schedule 1 A03	(S)-Cyclohexyl S-2-dimethylaminoethyl methylphosphonothioate	1186330-22-2	2930.90.95
Schedule 1 A03	(S)-Cyclopentyl S-2-diisopropylaminoethyl methylphosphonothioate	102490-59-5	2930.90.95
Schedule 1 A03	(S)-Ethyl S-2-diethylaminoethyl ethylphosphonothioate	1187548-79-3	2930.90.95
Schedule 1 A03	(S)-Ethyl S-2-diethylaminoethyl methylphosphonothioate	1187548-82-8	2930.90.95
Schedule 1 A03	(S)-O-Ethyl S-[2-(diisopropylamino)ethyl] methylphosphonothioate	65167-64-8	2930.90.95
Schedule 1 A03	[P(S)]-O-cyclopentyl S-[2-(dimethylamino)ethyl] methylphosphonothioate	22925-95-7	2930.90.95
Schedule 1 A03	1,2,2-Trimethylpropyl S-2-diethylaminoethyl methylphosphonothioate	468712-13-2	2930.90.95
Schedule 1 A03	1,2,2-Trimethylpropyl S-2-diisopropylaminoethyl methylphosphonothioate	198830-38-5	2930.90.95
Schedule 1 A03	1,2-Dimethylbutyl S-2-dimethylaminoethyl ethylphosphonothioate	1253739-43-3	2930.90.95

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A03	1-Ethylpropyl S-2-diisopropylaminoethyl propylphosphonothioate	958997-65-4	2930.90.95
Schedule 1 A03	1-Ethylpropyl S-2-dimethylaminoethyl ethylphosphonothiolate	1253739-92-2	2930.90.95
Schedule 1 A03	1-Methylpentyl S-2-dimethylaminoethyl ethylphosphonothiolate	1253739-96-6	2930.90.95
Schedule 1 A03	1-Methylpentyl S-2-dimethylaminoethyl methylphosphonothioate	79351-19-2	2930.90.95
Schedule 1 A03	1-Methylpentyl S-2-dipropylaminoethyl methylphosphonothiolate	1253740-08-7	2930.90.95
Schedule 1 A03	2-(((3,3-dimethylbutan-2-yl)oxy)(methyl)phosphoryl)sulfanyl)-N,N,N-trimethylethanaminium	38770-03-5	2930.90.95
Schedule 1 A03	2,2-Dimethylpropyl S-2-diethylaminoethyl ethylphosphonothiolate	1253766-83-4	2930.90.95
Schedule 1 A03	2,2-Dimethylpropyl S-2-diisopropylaminoethyl ethylphosphonothiolate	1253767-73-5	2930.90.95
Schedule 1 A03	2,2-Dimethylpropyl S-2-dimethylaminoethyl ethylphosphonothiolate	1253768-73-8	2930.90.95
Schedule 1 A03	2,2-Dimethylpropyl S-2-dimethylaminoethyl methylphosphonothioate	56217-66-4	2930.90.95
Schedule 1 A03	2-[(Ethoxymethylphosphoryl)thio]-N,N,N-trimethylethanaminium iodide	2478-92-4	2930.90.95
Schedule 1 A03	2-[[Ethoxy(ethyl)phosphoryl]thio]-N,N,N-triethylethanaminium iodide	24578-82-3	2930.90.95
Schedule 1 A03	2-[[Ethoxy(ethyl)phosphoryl]thio]-N,N,N-trimethylethanaminium iodide	220718-05-8	2930.90.95
Schedule 1 A03	2-[[Ethoxy(methyl)phosphoryl]thio]-N,N,N-trimethylethanaminium	56217-67-5	2930.90.95
Schedule 1 A03	2-[[Ethoxy(methyl)phosphoryl]thio]-N,N-diethyl-N-methylethanaminium iodide	220718-02-5	2930.90.95
Schedule 1 A03	2-[[Ethyl(isopropoxy)phosphoryl]thio]-N,N,N-trimethylethanaminium iodide	220718-06-9	2930.90.95
Schedule 1 A03	2-[[Isopropoxy(methyl)phosphoryl]thio]-N,N,N-trimethylethanaminium	56217-69-7	2930.90.95
Schedule 1 A03	2-[[Isopropoxy(methyl)phosphoryl]thio]-N,N,N-trimethylethanaminium iodide	1866-98-4	2930.90.95
Schedule 1 A03	2-Methylbutyl S-2-dipropylaminoethyl ethylphosphonothiolate	1253735-81-7	2930.90.95

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A03	2-Methylbutyl S-2-dipropylaminoethyl methylphosphonothiolate	1253735-83-9	2930.90.95
Schedule 1 A03	2-Methylcyclopentyl S-2-dimethylaminoethyl ethylphosphonothiolate	1253736-58-1	2930.90.95
Schedule 1 A03	2-Methylcyclopentyl S-2-dimethylaminoethyl methylphosphonothiolate	1253736-59-2	2930.90.95
Schedule 1 A03	2-Methylpentyl S-2-diethylaminoethyl ethylphosphonothioate	959288-71-2	2930.90.95
Schedule 1 A03	2-Methylpentyl S-2-diethylaminoethyl methylphosphonothioate	468712-14-3	2930.90.95
Schedule 1 A03	3,3-Dimethylbutyl S-2-dimethylaminoethyl methylphosphonothioate	34388-36-8	2930.90.95
Schedule 1 A03	3,5,5-Trimethylhexyl S-2-diisopropylaminoethyl propylphosphonothioate	959257-18-2	2930.90.95
Schedule 1 A03	3,5,5-Trimethylhexyl S-2-dimethylaminoethyl propylphosphonothioate	959250-22-7	2930.90.95
Schedule 1 A03	3-Methylbutyl S-2-diethylaminoethyl methylphosphonothioate	468712-12-1	2930.90.95
Schedule 1 A03	3-Methylbutyl S-2-dipropylaminoethyl ethylphosphonothiolate	1253735-73-7	2930.90.95
Schedule 1 A03	3-Methylbutyl S-2-dipropylaminoethyl methylphosphonothiolate	1253735-78-2	2930.90.95
Schedule 1 A03	4-Methylpentyl S-2-diisopropylaminoethyl propylphosphonothioate	959054-90-1	2930.90.95
Schedule 1 A03	4-Methylpentyl S-2-dimethylaminoethyl propylphosphonothioate	959259-06-4	2930.90.95
Schedule 1 A03	Butyl S-2-diethylaminoethyl ethylphosphonothioate	468712-20-1	2930.90.95
Schedule 1 A03	Butyl S-2-diethylaminoethyl isopropylphosphonothioate	468712-46-1	2930.90.95
Schedule 1 A03	Butyl S-2-diethylaminoethyl methylphosphonothioate	468712-10-9	2930.90.95
Schedule 1 A03	Butyl S-2-diethylaminoethyl propylphosphonothioate	468712-35-8	2930.90.95
Schedule 1 A03	Butyl S-2-diisopropylaminoethyl ethylphosphonothiolate	1253757-48-0	2930.90.95
Schedule 1 A03	Butyl S-2-diisopropylaminoethyl isopropylphosphonothioate	958995-46-5	2930.90.95
Schedule 1 A03	Butyl S-2-diisopropylaminoethyl methylphosphonothioate	52364-46-2	2930.90.95
Schedule 1 A03	Butyl S-2-diisopropylaminoethyl propylphosphonothioate	959111-24-1	2930.90.95
Schedule 1 A03	Butyl S-2-dimethylaminoethyl methylphosphonothioate	56217-63-1	2930.90.95
Schedule 1 A03	Butyl S-2-dipropylaminoethyl methylphosphonothiolate	1253759-45-3	2930.90.95

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A03	Cyclohexyl S-2-diethylaminoethyl ethylphosphonothioate	959020-04-3	2930.90.95
Schedule 1 A03	Cyclohexyl S-2-diethylaminoethyl methylphosphonothioate	71293-89-5	2930.90.95
Schedule 1 A03	Cyclohexyl S-2-dimethylaminoethyl methylphosphonothioate	69795-06-8	2930.90.95
Schedule 1 A03	Cyclohexylmethyl S-2-diisopropylaminoethyl isopropylphosphonothioate	959233-60-4	2930.90.95
Schedule 1 A03	Cyclohexylmethyl S-2-diisopropylaminoethyl propylphosphonothioate	959268-47-4	2930.90.95
Schedule 1 A03	Cyclohexylmethyl S-2-dimethylaminoethyl propylphosphonothioate	959104-17-7	2930.90.95
Schedule 1 A03	Cyclooctyl S-2-dimethylaminoethyl propylphosphonothioate	959010-50-5	2930.90.95
Schedule 1 A03	Cyclopentyl S-2-diethylaminoethyl ethylphosphonothioate	468712-24-5	2930.90.95
Schedule 1 A03	Cyclopentyl S-2-diethylaminoethyl methylphosphonothioate	93240-66-5	2930.90.95
Schedule 1 A03	Cyclopentyl S-2-diisopropylaminoethyl methylphosphonothioate	85473-33-2	2930.90.95
Schedule 1 A03	Cyclopentyl S-2-dimethylaminoethyl methylphosphonothioate	22925-98-0	2930.90.95
Schedule 1 A03	Decyl S-2-diethylaminoethyl ethylphosphonothioate	468712-33-6	2930.90.95
Schedule 1 A03	Decyl S-2-diethylaminoethyl methylphosphonothioate	959288-69-8	2930.90.95
Schedule 1 A03	Decyl S-2-dimethylaminoethyl methylphosphonothioate	1253735-72-6	2930.90.95
Schedule 1 A03	Ethyl S-2-diethylaminoethyl ethylphosphonothioate	21738-25-0	2930.90.95
Schedule 1 A03	Ethyl S-2-diethylaminoethyl ethylphosphonothioate oxalate	108302-04-1	2930.90.95
Schedule 1 A03	Ethyl S-2-diethylaminoethyl isopropylphosphonothioate	99991-06-7	2930.90.95
Schedule 1 A03	Ethyl S-2-diethylaminoethyl methylphosphonothioate	21770-86-5	2930.90.95
Schedule 1 A03	Ethyl S-2-diethylaminoethyl propylphosphonothioate	99991-07-8	2930.90.95
Schedule 1 A03	Ethyl S-2-diisopropylaminoethyl ethylphosphonothioate	73835-17-3	2930.90.95
Schedule 1 A03	Ethyl S-2-diisopropylaminoethyl propylphosphonothioate	218964-60-4	2930.90.95
Schedule 1 A03	Ethyl S-2-diisopropylammoniumethyl methylphosphonothioate chloride	1253746-35-8	2930.90.95
Schedule 1 A03	Ethyl S-2-diisopropylmethylammoniumethyl ethylphosphonothioate iodide	1253742-77-6	2930.90.95
Schedule 1 A03	Ethyl S-2-dimethylaminoethyl ethylphosphonothioate	98543-25-0	2930.90.95
Schedule 1 A03	Ethyl S-2-dimethylaminoethyl isopropylphosphonothioate	1253744-32-9	2930.90.95
Schedule 1 A03	Ethyl S-2-dimethylaminoethyl propylphosphonothioate	218964-59-1	2930.90.95

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A03	Ethyl S-2-dipropylaminoethyl methylphosphonothioate	62512-68-9	2930.90.95
Schedule 1 A03	Heptyl S-2-diethylaminoethyl ethylphosphonothioate	468712-29-0	2930.90.95
Schedule 1 A03	Heptyl S-2-diethylaminoethylmethylphosphonothioate	468712-17-6	2930.90.95
Schedule 1 A03	Heptyl S-2-diisopropylaminoethyl isopropylphosphonothioate	959233-58-0	2930.90.95
Schedule 1 A03	Hexyl S-2-diethylaminoethyl ethylphosphonothioate	468712-25-6	2930.90.95
Schedule 1 A03	Hexyl S-2-diethylaminoethyl methylphosphonothioate	468712-15-4	2930.90.95
Schedule 1 A03	Hexyl S-2-diisopropylaminoethyl methylphosphonothioate	82721-31-1	2930.90.95
Schedule 1 A03	Hexyl S-2-dimethylaminoethyl methylphosphonothioate	69777-00-0	2930.90.95
Schedule 1 A03	Isobutyl S-2-diethylaminoethyl ethylphosphonothioate	468712-21-2	2930.90.95
Schedule 1 A03	Isobutyl S-2-diethylaminoethyl isopropylphosphonothioate	468712-47-2	2930.90.95
Schedule 1 A03	Isobutyl S-2-diethylaminoethyl methylphosphonothioate	159939-87-4	2930.90.95
Schedule 1 A03	Isobutyl S-2-diethylaminoethyl propylphosphonothioate	468712-36-9	2930.90.95
Schedule 1 A03	Isobutyl S-2-diisopropylaminoethyl methylphosphonothioate	855307-83-4	2930.90.95
Schedule 1 A03	Isobutyl S-2-dimethylaminoethyl ethylphosphonothiolate	1253771-21-9	2930.90.95
Schedule 1 A03	Isobutyl S-2-dimethylaminoethyl methylphosphonothioate	56217-65-3	2930.90.95
Schedule 1 A03	Isobutyl S-2-dipropylaminoethyl methylphosphonothiolate	1253772-23-4	2930.90.95
Schedule 1 A03	Isopentyl S-2-diethylaminoethyl ethylphosphonothioate	468712-23-4	2930.90.95
Schedule 1 A03	Isopropyl S-2-diethylaminoethyl ethylphosphonothioate	162085-93-0	2930.90.95
Schedule 1 A03	Isopropyl S-2-diethylaminoethyl methylphosphonothioate	91134-95-1	2930.90.95
Schedule 1 A03	Isopropyl S-2-diethylaminoethyl propylphosphonothioate	468712-34-7	2930.90.95
Schedule 1 A03	Isopropyl S-2-diethylpropylammoniumethyl ethylphosphonothiolate iodide	1253752-57-6	2930.90.95
Schedule 1 A03	Isopropyl S-2-diisopropylaminoethyl ethylphosphonothioate	162085-95-2	2930.90.95
Schedule 1 A03	Isopropyl S-2-diisopropylaminoethyl isopropylphosphonothioate	959289-50-0	2930.90.95
Schedule 1 A03	Isopropyl S-2-diisopropylaminoethyl methylphosphonothioate	51446-23-2	2930.90.95
Schedule 1 A03	Isopropyl S-2-dimethylaminoethyl (R)-methylphosphonothioate	13915-99-6	2930.90.95
Schedule 1 A03	Isopropyl S-2-dimethylaminoethyl (S)-methylphosphonothioate	13915-98-5	2930.90.95
Schedule 1 A03	Isopropyl S-2-dimethylaminoethyl ethylphosphonothioate	162085-92-9	2930.90.95

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A03	Isopropyl S-2-dimethylaminoethyl methylphosphonothioate	21068-52-0	2930.90.95
Schedule 1 A03	Isopropyl S-2-dimethylpropylammoniummethyl ethylphosphonothiolate iodide	1253753-51-3	2930.90.95
Schedule 1 A03	Methyl S-2-diethylaminoethyl ethylphosphonothioate	170800-77-8	2930.90.95
Schedule 1 A03	Methyl S-2-diethylaminoethyl methylphosphonothioate	203385-78-8	2930.90.95
Schedule 1 A03	Methyl S-2-diisopropylaminoethyl ethylphosphonothioate	162085-94-1	2930.90.95
Schedule 1 A03	Methyl S-2-diisopropylaminoethyl methylphosphonothioate	198830-32-9	2930.90.95
Schedule 1 A03	Methyl S-2-dimethylaminoethyl ethylphosphonothioate	468712-18-7	2930.90.95
Schedule 1 A03	Methyl S-2-dimethylaminoethyl methylphosphonothioate	108490-92-2	2930.90.95
Schedule 1 A03	N-(2-[[Ethoxy(methyl)phosphoryl]thio]ethyl)-N-isopropyl-N-methylpropan-2-aminium iodide	220718-03-6	2930.90.95
Schedule 1 A03	N,N-Diethyl-2-[[cyclohexyloxy)methylphosphoryl]thio]-N-methylethanaminium iodide	132412-52-3	2930.90.95
Schedule 1 A03	Nonyl S-2-diethylaminoethyl ethylphosphonothioate	468712-32-5	2930.90.95
Schedule 1 A03	Nonyl S-2-dipropylaminoethyl ethylphosphonothiolate	1253735-84-0	2930.90.95
Schedule 1 A03	Nonyl S-2-dipropylaminoethyl methylphosphonothiolate	1253736-10-5	2930.90.95
Schedule 1 A03	Octyl S-2-diethylaminoethyl ethylphosphonothioate	468712-30-3	2930.90.95
Schedule 1 A03	Octyl S-2-dimethylaminoethyl propylphosphonothioate	959010-49-2	2930.90.95
Schedule 1 A03	O-Ethyl-diisopropylaminoethyl methyl phosphonothiolate; VX	50782-69-9	2930.90.95
Schedule 1 A03	O-sec-butyl S-[2-(dimethylamino)ethyl] ethylphosphonothioate oxalate	50929-97-0	2930.90.95
Schedule 1 A03	Pentyl S-2-diethylaminoethyl ethylphosphonothiolate	1253761-22-6	2930.90.95
Schedule 1 A03	Pentyl S-2-diethylaminoethyl methylphosphonothiolate	1253764-67-8	2930.90.95
Schedule 1 A03	Pentyl S-2-diisopropylaminoethyl methylphosphonothioate	198830-36-3	2930.90.95
Schedule 1 A03	Pentyl S-2-dimethylaminoethyl ethylphosphonothiolate	1253762-74-1	2930.90.95
Schedule 1 A03	Pentyl S-2-dimethylaminoethyl methylphosphonothioate	56217-64-2	2930.90.95
Schedule 1 A03	Pentyl S-2-dipropylaminoethyl ethylphosphonothiolate	1253763-58-4	2930.90.95
Schedule 1 A03	Pentyl S-2-dipropylaminoethyl methylphosphonothiolate	1253765-64-8	2930.90.95
Schedule 1 A03	Phosphonothioic acid, P-methyl-, S-[2-[bis(1-methylethyl)amino]ethyl] O-ethyl ester	50782-69-9	2930.90.95
Schedule 1 A03	Propyl S-2-diethylaminoethyl ethylphosphonothioate	468712-19-8	2930.90.95

Reference	Chemical name	CAS number	CN code¹
Schedule 1 A03	Propyl S-2-diethylaminoethyl propylphosphonothioate	959288-70-1	2930.90.95
Schedule 1 A03	Propyl S-2-diisopropylaminoethyl ethylphosphonothiolate	1253755-29-1	2930.90.95
Schedule 1 A03	Propyl S-2-diisopropylaminoethyl methylphosphonothioate	52364-45-1	2930.90.95
Schedule 1 A03	Propyl S-2-diisopropylaminoethyl propylphosphonothioate	958997-62-1	2930.90.95
Schedule 1 A03	Propyl S-2-dimethylaminoethyl methylphosphonothioate	56217-62-0	2930.90.95
Schedule 1 A03	Propyl S-2-dimethylaminoethyl propylphosphonothioate	959259-05-3	2930.90.95
Schedule 1 A03	Propyl S-2-dipropylaminoethyl methylphosphonothiolate	1253756-54-5	2930.90.95
Schedule 1 A03	Propyl S-2-dipropylaminoethyl propylphosphonothioate	959233-79-5	2930.90.95
Schedule 1 A03	S-(2-[[2-(dimethylamino)ethyl]sulfanyl]ethyl) hydrogen methylphosphonothioate	170082-85-6	2930.90.95
Schedule 1 A03	S-[2-(diethylamino)ethyl] O-ethyl methylphosphonothioate 4-methylbenzenesulfonate	107059-49-4	2930.90.95
Schedule 1 A03	S-[2-(diethylamino)ethyl] O-ethyl methylphosphonothioate oxalate	108776-13-2	2930.90.95
Schedule 1 A03	S-[2-(Dimethylamino)ethyl] O-ethyl methylphosphonothioate	20820-80-8	2930.90.95
Schedule 1 A03	S-[2-(dimethylamino)ethyl] O-ethyl methylphosphonothioate oxalate	2641-09-0	2930.90.95
Schedule 1 A03	S-[2-(dimethylamino)ethyl] O-isopropyl methylphosphonothioate oxalate	2478-93-5	2930.90.95
Schedule 1 A03	S-2 Diethylaminoethyl ethylphosphonothioate	161935-18-8	2930.90.95
Schedule 1 A03	S-2 Diisopropylaminoethyl ethylphosphonothioate	161935-16-6	2930.90.95
Schedule 1 A03	S-2-Diethylaminoethyl methylphosphonothioate	21068-51-9	2930.90.95
Schedule 1 A03	S-2-Diisopropylaminoethyl methylphosphonothioate	73207-98-4	2930.90.95
Schedule 1 A03	S-2-Dimethylaminoethyl ethylphosphonothiolate	1253735-44-2	2930.90.95
Schedule 1 A03	S-2-Dimethylaminoethyl methylphosphonothioate	34256-71-8	2930.90.95
Schedule 1 A03	S-2-Dimethylaminoethyl propylphosphonothiolate	1253735-61-3	2930.90.95
Schedule 1 A03	S-2-Dipropylaminoethyl methylphosphonothioate	30102-97-7	2930.90.95
Schedule 1 A03	sec-Butyl S-2-diethylaminoethyl ethylphosphonothioate	468712-22-3	2930.90.95
Schedule 1 A03	sec-Butyl S-2-diethylaminoethyl isopropylphosphonothioate	468712-48-3	2930.90.95
Schedule 1 A03	sec-Butyl S-2-diethylaminoethyl methylphosphonothioate	468712-11-0	2930.90.95
Schedule 1 A03	sec-Butyl S-2-diethylaminoethyl propylphosphonothioate	468712-37-0	2930.90.95

Reference	Chemical name	CAS number	CN code ¹
Schedule 1 A03	sec-Butyl S-2-diisopropylaminoethyl isopropylphosphonothioate	959040-29-0	2930.90.95
Schedule 1 A03	sec-Butyl S-2-diisopropylaminoethyl methylphosphonothiolate	1253773-82-8	2930.90.95
Schedule 1 A03	sec-Butyl S-2-diisopropylaminoethyl propylphosphonothioate	959257-17-1	2930.90.95
Schedule 1 A03	sec-Butyl S-2-dimethylaminoethyl ethylphosphonothioate	50929-96-9	2930.90.95
Schedule 1 A03	tert-Butyl S-2-diethylaminoethyl methylphosphonothioate	288578-18-7	2930.90.95
Schedule 1 A04	1,2-Bis (2-chloroethylthio)ethane; sulphur mustard	3563-36-8	2930.90.95
Schedule 1 A04	1,3-Bis (2-chloroethylthio)-n-propane; sulphur mustard	63905-10-2	2930.90.95
Schedule 1 A04	1,4-Bis (2-chloroethylthio)-n-butane; sulphur mustard	142868-93-7	2930.90.95
Schedule 1 A04	1,5-Bis (2-chloroethylthio)-n-pentane; sulphur mustard	142868-94-8	2930.90.95
Schedule 1 A04	2-Chloroethylchloromethylsulphide; sulphur mustard	2625-76-5	2930.90.95
Schedule 1 A04	Bis (2-chloroethyl) sulphide; sulphur mustard	505-60-2	2930.90.95
Schedule 1 A04	Bis (2-chloroethylthio) methane; sulphur mustard	63869-13-6	2930.90.95
Schedule 1 A04	Bis (2-chloroethylthioethyl) ether; sulphur mustard	63918-89-8	2930.90.95
Schedule 1 A04	Bis (2-chloroethylthiomethyl) ether; sulphur mustard	63918-90-1	2930.90.95
Schedule 1 A05	2-Chlorovinylchloroarsine; Lewisite 1	541-25-3	2931.90.00
Schedule 1 A05	Bis (2-chlorovinyl) chloroarsine; Lewisite 3	40334-69-8	2931.90.00
Schedule 1 A05	Tris (2-chlorovinyl) arsine; Lewisite 2	40334-70-1	2931.90.00
Schedule 1 A06	Bis-(2-chloroethyl) methylamine; HN2	51-75-2	2921.19.99
Schedule 1 A06	Bis(2-chloroethyl)ethylamine ; HN1	538-07-8	2921.19.99
Schedule 1 A06	Tris-(2-chloroethyl) amine; HN3	555-77-1	2921.19.99
Schedule 1 A07	Saxitoxin	35523-89-8	3002.49.00
Schedule 1 A08	Ricin	9009-86-3	3002.49.00
Schedule 1 A13	Methyl-(1-(diethylamino)ethylidene)phosphonamidofluoridate; Novichok A-230	2387496-12-8	2931.59.90
Schedule 1 A13	N-(1-(di-n-decylamino)-n-decylidene)-P-decylphosphonamidic fluoride	2387495-99-8	2931.59.90
Schedule 1 A14	Ethyl (1-(diethylamino)ethylidene)phosphoramidofluoridate; Novichok A-234	2387496-06-0	2929.90.90
Schedule 1 A14	Methyl (1-(diethylamino)ethylidene)phosphoramidofluoridate; Novichok A-232	2387496-04-8	2929.90.90

Reference	Chemical name	CAS number	CN code ¹
Schedule 1 A14	O-n-Decyl N-(1-(di-n-decylamino)-n-decylidene)phosphoramidofluoridate	2387496-00-4	2929.90.90
Schedule 1 A15	Methyl-(bis(diethylamino)methylene)phosphonamidofluoridate; Novichok A-242	2387496-14-0	2931.59.90
Schedule 1 A16	1,10-Bis[N-(3-dimethylcarbamoyl- α -picolyl)-N-ethyl-N-methylammonio]decane-2,9-dione dibromide	77104-00-8	2933.39.99
Schedule 1 A16	1-[N,N-dimethyl-N-(2-hydroxy)ethylammonio]-10-[N-(3-dimethylcarbamoyl- α -picolinyl)-N,N-dimethylammonio]decane dibromide	77104-62-2	2933.39.99
Schedule 1 B09	Ethylphosphonyl difluoride	753-98-0	2931.59.90
Schedule 1 B09	Isopropylphosphonic difluoride	677-42-9	2931.59.90
Schedule 1 B09	Methylphosphonyl difluoride; DF	676-99-3	2931.59.10
Schedule 1 B09	Propylphosphonic difluoride	690-14-2	2931.59.90
Schedule 1 B10	Butyl 2-diethylaminoethyl methylphosphonite	169662-68-4	2931.49.80
Schedule 1 B10	Cyclopentyl 2-diisopropylaminoethyl methylphosphonite	1282026-51-0	2931.49.80
Schedule 1 B10	Ethyl 2-diethylaminoethyl methylphosphonite	55523-55-2	2931.49.80
Schedule 1 B10	O-Ethyl O-2-diisopropylaminoethyl methylphosphonite; QL	57856-11-8	2931.49.80
Schedule 1 B11	Chlorosarin	1445-76-7	2931.59.90
Schedule 1 B12	3-[chloro(methyl)phosphoryl]oxy-2,2-dimethylbutane; Chlorosoman	7040-57-5	2931.59.90
Schedule 2 A01	[2-(diethylthiophosphor-S-yl)ethyl]diethylammonium hydrogen oxalate; Amiton salt	3734-97-2	2930.90.95
Schedule 2 A01	2-[(diethoxyphosphoryl)sulfanyl]-N,N,N-triethylethanaminium; Amiton salt	20194-81-4	2930.90.95
Schedule 2 A01	O,O-diethyl S-[2-(diethylamino)ethyl] phosphorothioate; Amiton	78-53-5	2930.90.95
Schedule 2 A02	1,1,3,3,3-pentafluoro-2-(trifluoromethyl)prop-1-ene; PFIB	382-21-8	2903.59.00
Schedule 2 A03	3-Quinuclidinyl benzilate; BZ	6581-06-2	2933.39.99
Schedule 2 B04	(5-Ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl)methyl methyl methylphosphonate	41203-81-0	2931.47.00
Schedule 2 B04	(E)-2-Butenyl methylphosphonofluoridate	138780-00-4	2931.59.90
Schedule 2 B04	1,2,2-Trimethylpropyl ethylphosphonate	143663-83-6	2931.49.80
Schedule 2 B04	1,2,2-Trimethylpropyl isopropylphosphonate	249934-16-5	2931.49.80

Reference	Chemical name	CAS number	CN code ¹
Schedule 2 B04	1,2,2-Trimethylpropyl methylphosphonate	616-52-4	2931.49.80
Schedule 2 B04	1,2,2-Trimethylpropyl propylphosphonate	249934-12-1	2931.49.80
Schedule 2 B04	1-Methylbutyl methylphosphonate	198885-54-0	2931.49.80
Schedule 2 B04	1-Methylheptyl methylphosphonate	148456-51-3	2931.49.80
Schedule 2 B04	1-Methylpentyl methylphosphonate	944146-50-3	2931.49.80
Schedule 2 B04	1-Methylprop-2-yn-1-yl methylphosphonofluoridoate	30593-71-6	2931.59.90
Schedule 2 B04	2,4,6-Tripropyl-1,3,5,2,4,6-trioxatriphosphinane 2,4,6-trioxide	68957-94-8	2931.46.00
Schedule 2 B04	2-Ethylhexyl methylphosphonate	13688-82-9	2931.49.80
Schedule 2 B04	2-Methylpropyl methyl methylphosphonate	150799-85-2	2931.49.80
Schedule 2 B04	3,9-Dimethyl-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane 3,9-dioxide	3001-98-7	2931.48.00
Schedule 2 B04	4-Methylpentyl methylphosphonate	944146-51-4	2931.49.80
Schedule 2 B04	Aluminium methyl methylphosphonate	35851-62-8	2931.49.80
Schedule 2 B04	Aluminium methyl propylphosphonate	114076-21-0	2931.49.80
Schedule 2 B04	Bis(1,2,2-trimethylpropyl) ethylphosphonate	169739-48-4	2931.49.80
Schedule 2 B04	Bis(1,2,2-trimethylpropyl) methylphosphonate	7040-58-6	2931.49.80
Schedule 2 B04	Bis(1,2,2-trimethylpropyl) propylphosphonate	192438-31-6	2931.49.80
Schedule 2 B04	Bis(1,3-dimethylbutyl) methylphosphonate	959028-09-2	2931.49.80
Schedule 2 B04	Bis(1-ethylpropyl) methylphosphonate	5828-67-1	2931.49.80
Schedule 2 B04	Bis(1-methylbutyl) methylphosphonate	460091-25-2	2931.49.80
Schedule 2 B04	Bis(1-methylethyl) methylphosphonate	1445-75-6	2931.49.80
Schedule 2 B04	Bis(1-methylheptyl) methylphosphonate	76341-63-4	2931.49.80
Schedule 2 B04	Bis(1-methylpentyl) methylphosphonate	1020119-28-1	2931.49.50
Schedule 2 B04	Bis(2-chloroethyl) methylphosphonate	2799-58-8	2931.59.90
Schedule 2 B04	Bis(2-ethylhexyl) methylphosphonate	60556-68-5	2931.49.80
Schedule 2 B04	Bis(2-methoxyethyl) ethylphosphonate	170275-34-0	2931.49.80
Schedule 2 B04	Bis(2-methoxyethyl) methylphosphonate	6069-09-6	2931.49.80
Schedule 2 B04	Bis(polyoxyethylene) methylphosphonate	363626-50-0	3907.21.00
Schedule 2 B04	Bis[(5-Ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl)methyl] methylphosphonate	42595-45-9	2931.49.20

Reference	Chemical name	CAS number	CN code¹
Schedule 2 B04	Boranylidene methylphosphonium	14975-23-6	2931.49.80
Schedule 2 B04	Butyl methyl methylphosphonate	683-32-9	2931.49.80
Schedule 2 B04	Butyl methylphosphinate	6172-80-1	2931.49.60
Schedule 2 B04	Butyl methylphosphonate	1832-55-9	2931.49.80
Schedule 2 B04	Butyl methylphosphonochloridoate	23164-47-8	2931.59.90
Schedule 2 B04	Cyclohexyl ethylphosphonate	170424-87-0	2931.49.80
Schedule 2 B04	Cyclohexyl ethylphosphonochloridoate	57523-33-8	2931.59.90
Schedule 2 B04	Cyclohexyl methyl methylphosphonate	7040-52-0	2931.49.80
Schedule 2 B04	Cyclohexyl methylphosphonate	1932-60-1	2931.49.80
Schedule 2 B04	Cyclohexyl methylphosphonochloridoate	7040-92-8	2931.59.90
Schedule 2 B04	Dibutyl methylphosphonate	2404-73-1	2931.49.80
Schedule 2 B04	Dibutyl propylphosphonate	4628-12-0	2931.49.80
Schedule 2 B04	Dicyclohexyl methylphosphonate	7040-53-1	2931.49.80
Schedule 2 B04	Dicyclopentyl methylphosphonate	22583-27-3	2931.49.80
Schedule 2 B04	Diethyl ethylphosphonate	78-38-6	2931.43.00
Schedule 2 B04	Diethyl ethylphosphonite	2651-85-6	2931.49.80
Schedule 2 B04	Diethyl isopropylphosphonate	1538-69-8	2931.49.80
Schedule 2 B04	Diethyl isopropylphosphonite	61820-31-3	2931.49.80
Schedule 2 B04	Diethyl methylphosphonate	683-08-9	2931.49.80
Schedule 2 B04	Diethyl methylphosphonite	15715-41-0	2931.49.80
Schedule 2 B04	Diethyl propylphosphonate	18812-51-6	2931.49.80
Schedule 2 B04	Diheptyl methylphosphonate	77304-64-4	2931.49.80
Schedule 2 B04	Dihexyl isopropylphosphonate	148456-62-6	2931.49.80
Schedule 2 B04	Dihexyl methylphosphonate	77304-63-3	2931.49.80
Schedule 2 B04	Diisopropyl dimethyldiphosphonate	28616-51-5	2931.49.80
Schedule 2 B04	Diisopropyl ethylphosphonate	1067-69-2	2931.49.80
Schedule 2 B04	Diisopropyl isopropylphosphonate	3759-39-5	2931.49.80
Schedule 2 B04	Diisopropyl propylphosphonate	18812-55-0	2931.49.80
Schedule 2 B04	Dimethyl ethylphosphonate	6163-75-3	2931.49.80

Reference	Chemical name	CAS number	CN code ¹
Schedule 2 B04	Dimethyl ethylphosphonite	15715-42-1	2931.49.80
Schedule 2 B04	Dimethyl isopropylphosphonate	54552-77-1	2931.49.80
Schedule 2 B04	Dimethyl methylphosphonate	756-79-6	2931.41.00
Schedule 2 B04	Dimethyl propylphosphonate	18755-43-6	2931.42.00
Schedule 2 B04	Dinonyl methylphosphonate	95428-88-9	2931.49.80
Schedule 2 B04	Diocetyl ethylphosphonate	6156-13-4	2931.49.80
Schedule 2 B04	Diocetyl isopropylphosphonate	83218-22-8	2931.49.80
Schedule 2 B04	Diocetyl methylphosphonate	1832-68-4	2931.49.80
Schedule 2 B04	Diocetyl propylphosphonate	959044-15-6	2931.49.80
Schedule 2 B04	Diphenyl methylphosphonate	7526-26-3	2931.49.80
Schedule 2 B04	Dipinacolyl dimethyldiphosphonate	81397-56-0	2931.49.80
Schedule 2 B04	Dipropyl isopropylphosphonate	192698-90-1	2931.49.80
Schedule 2 B04	Dipropyldiphosphonic acid	71760-04-8	2931.49.80
Schedule 2 B04	Ethyl ethylphosphonate	7305-61-5	2931.49.80
Schedule 2 B04	Ethyl isopropylphosphonate	4546-11-7	2931.49.80
Schedule 2 B04	Ethyl methyl ethylisopropylphosphoramidate	906801-34-1	2929.90.90
Schedule 2 B04	Ethyl methyl methylphosphonate	18755-36-7	2931.49.80
Schedule 2 B04	Ethyl methylphosphinate	16391-07-4	2931.49.80
Schedule 2 B04	Ethyl methylphosphonate	1832-53-7	2931.49.80
Schedule 2 B04	Ethyl methylphosphonite	89034-24-2	2931.49.80
Schedule 2 B04	Ethyl methylphosphonochloridoate	5284-09-3	2931.59.90
Schedule 2 B04	Ethyl N,N-diethyl-P-methylphosphonamidate	2404-81-1	2931.49.80
Schedule 2 B04	Ethyl propylphosphonochloridoate	28830-00-4	2931.59.90
Schedule 2 B04	Ethyl S-dicyclohexylammonium methylphosphonothiolate	73790-51-9	2930.90.95
Schedule 2 B04	Ethylphosphinyl dichloride	1498-40-4	2931.59.90
Schedule 2 B04	Ethylphosphinyl difluoride	430-78-4	2931.59.90
Schedule 2 B04	Ethylphosphonic acid	6779-09-5	2931.49.80
Schedule 2 B04	Ethylphosphonothioic dichloride	993-43-1	2931.59.90
Schedule 2 B04	Ethylphosphonothioic O,O-acid	13991-98-5	2930.90.95

Reference	Chemical name	CAS number	CN code ¹
Schedule 2 B04	Ethylphosphonyl dichloride	1066-50-8	2931.59.90
Schedule 2 B04	Heptyl methylphosphonate	170275-32-8	2931.49.80
Schedule 2 B04	Hexyl methylphosphonate	148456-69-3	2931.49.80
Schedule 2 B04	Isobutyl isopropylphosphonochloridoate	170082-70-9	2931.59.90
Schedule 2 B04	Isobutyl methylphosphonate	1604-38-2	2931.49.80
Schedule 2 B04	Isobutyl methylphosphonochloridoate	18359-05-2	2931.59.90
Schedule 2 B04	Isobutyl propylphosphonochloridoate	13213-47-3	2931.59.90
Schedule 2 B04	Isopropyl 1,2,2-trimethylpropyl methylphosphonate	92411-67-1	2931.49.80
Schedule 2 B04	Isopropyl ethylphosphonate	170135-50-9	2931.49.80
Schedule 2 B04	Isopropyl ethylphosphonochloridoate	28829-95-0	2931.59.90
Schedule 2 B04	Isopropyl isopropylphosphonate	249934-15-4	2931.49.80
Schedule 2 B04	Isopropyl methyl isopropylphosphonate	331954-04-2	2931.49.80
Schedule 2 B04	Isopropyl methyl phosphonic acid	1832-54-8	2931.49.80
Schedule 2 B04	Isopropyl methyl propylphosphonate	211923-89-6	2931.49.80
Schedule 2 B04	Isopropyl propylphosphonate	53621-99-1	2931.49.80
Schedule 2 B04	Isopropylphosphonic dichloride	1498-46-0	2931.52.00
Schedule 2 B04	Isopropylphosphonothioic dichloride	1498-60-8	2930.90.95
Schedule 2 B04	Isopropylphosphonous dichloride	25235-15-8	2931.59.90
Schedule 2 B04	Methyl 1,2,2-trimethylpropyl methylphosphonate	7040-59-7	2931.49.80
Schedule 2 B04	Methyl 3-(trimethoxysilyl)propyl methylphosphonate	67812-17-3	2931.49.80
Schedule 2 B04	Methyl isopropylphosphonate	249934-13-2	2931.49.80
Schedule 2 B04	Methyl methylphosphonate	1066-53-1	2931.49.80
Schedule 2 B04	Methyl propyl isopropylphosphonate	741700-63-0	2931.49.80
Schedule 2 B04	Methyl propyl propylphosphonate	18755-44-7	2931.49.80
Schedule 2 B04	Methylphosphinic acid	4206-94-4	2931.49.80
Schedule 2 B04	Methylphosphinyl dichloride	676-83-5	2931.59.90
Schedule 2 B04	Methylphosphinyl difluoride	753-59-3	2931.59.90
Schedule 2 B04	Methylphosphonic acid	993-13-5	2931.44.00

Reference	Chemical name	CAS number	CN code ¹
Schedule 2 B04	Methylphosphonic acid compound with N-(aminoiminomethyl)urea (1:1)	84402-58-4	2931.45.00
Schedule 2 B04	Methylphosphonothioic dichloride	676-98-2	2931.59.90
Schedule 2 B04	Methylphosphonothioic O,O-acid	5994-73-0	2930.90.95
Schedule 2 B04	Methylphosphonyl dichloride	676-97-1	2931.51.00
Schedule 2 B04	Methyltriphenoxyphosphonium iodide	17579-99-6	2931.49.80
Schedule 2 B04	Mixture of CAS RN 41203-81-0 and CAS RN 42595-45-9	170836-68-7	3824.91.00
Schedule 2 B04	Nonyl methylphosphonate	1832-60-6	2931.49.80
Schedule 2 B04	O-(3-chloropropyl) O-[4-nitro-3-(trifluoromethyl)phenyl] methylphosphonothionate	849-29-6	2931.53.00
Schedule 2 B04	O,O-Dibutyl methylphosphonothioate	18628-73-4	2930.90.95
Schedule 2 B04	O,O-Diethyl methylphosphonothioate	6996-81-2	2930.90.95
Schedule 2 B04	O,O-Dipentyl methylphosphonothioate	91964-75-9	2930.90.95
Schedule 2 B04	Octyl isopropylphosphonate	108506-63-4	2931.49.80
Schedule 2 B04	Octyl methylphosphonate	1832-58-2	2931.49.80
Schedule 2 B04	Octyl propylphosphonate	781566-65-2	2931.49.80
Schedule 2 B04	O-Cyclohexyl methylphosphonofluoridothioate	4241-34-3	2930.90.95
Schedule 2 B04	O-ethyl ethylchloridothiophosphonate	1497-68-3	2930.90.95
Schedule 2 B04	O-Ethyl methylphosphonochloridothioate	2524-16-5	2930.90.95
Schedule 2 B04	O-Ethyl S-hydrogen methylphosphonothioate	18005-40-8	2930.90.95
Schedule 2 B04	O-Isobutyl methylphosphonothioate	20626-99-7	2930.90.95
Schedule 2 B04	O-Methyl ethylphosphonochloridothioate	1497-69-4	2930.90.95
Schedule 2 B04	O-Methyl methylphosphonochloridothioate	2524-15-4	2930.90.95
Schedule 2 B04	O-Propyl methylphosphonothionochloridoate	18005-37-3	2930.90.95
Schedule 2 B04	Pentamethylphosphonic diamide	2511-17-3	2931.49.80
Schedule 2 B04	Phenyl ethylphosphonofluoridoate	959259-83-7	2931.59.90
Schedule 2 B04	Phenyl methylphosphonofluoridoate	133826-40-1	2931.59.90
Schedule 2 B04	Phosphonic acid, methyl-, polyglycol ester; Exolit OP 560	663176-00-9	3824.92.00
Schedule 2 B04	Phosphonic acid, methyl-, polyglycol ester; Exolit OP 560 TP	294675-51-7	3824.92.00
Schedule 2 B04	Phosphonothioic acid, P-methyl-, O,S-diethyl ester	2511-10-6	2930.90.95

Reference	Chemical name	CAS number	CN code ¹
Schedule 2 B04	Phosphorus oxide, polymer with dimethyl methylphosphonate and oxirane; Fyroltex HP or Fyrol 51	70715-06-9	3824.99.86
Schedule 2 B04	P-methylphosphonic diamide	4759-30-2	2931.49.80
Schedule 2 B04	Poly(1,3-phenylene methyl phosphonate)	63747-58-0	3911.20.00
Schedule 2 B04	Product from the reaction of Methylphosphonic acid and 1,2-Ethanediamine	99580-93-5	2931.49.80
Schedule 2 B04	Product from the reaction of Methylphosphonic acid and 1,3,5-Triazine-2,4,6-triamine 2,4,6-triamine	129788-86-9	2931.49.80
Schedule 2 B04	Propyl 1,2,2-trimethylpropyl methylphosphonate	90550-49-5	2931.49.80
Schedule 2 B04	Propyl isopropylphosphonate	741700-67-4	2931.49.80
Schedule 2 B04	Propyl methylphosphonate	4546-11-6	2931.49.80
Schedule 2 B04	Propyl methylphosphonochloridoate	15110-09-5	2931.59.90
Schedule 2 B04	Propyl propylphosphonate	21921-97-1	2931.49.80
Schedule 2 B04	Propylphosphonic acid	4672-38-2	2931.49.80
Schedule 2 B04	Propylphosphonothioic dichloride	2524-01-8	2930.90.95
Schedule 2 B04	Propylphosphonothioic O,O-acid	27797-35-9	2930.90.95
Schedule 2 B04	Propylphosphonyl dichloride	4708-04-7	2931.52.00
Schedule 2 B04	S,S-Diethyl methylphosphonodithioate	995-88-0	2930.90.95
Schedule 2 B04	S-2-Dipropylaminoethyl methylphosphonothionofluoridoate	28841-40-9	2930.90.95
Schedule 2 B04	Sec-butyl isopropylphosphonochloridoate	170082-69-6	2931.59.90
Schedule 2 B04	Sec-butyl propylphosphonochloridoate	170082-71-0	2931.59.90
Schedule 2 B04	S-Methyl methylphosphonochloridothioate	13113-89-8	2930.90.95
Schedule 2 B04	S-Methyl methylphosphonothioate	73675-56-6	2930.90.95
Schedule 2 B04	Sodium 3-(trihydroxysilyl)propyl methylphosphonate	84962-98-1	2931.49.10
Schedule 2 B04	Sodium O-butyl methylphosphonothioate	51825-85-5	2930.90.95
Schedule 2 B04	Sodium O-ethyl ethylphosphonothioate	17390-16-8	2930.90.95
Schedule 2 B04	Sodium O-ethyl methylphosphonothioate	22307-81-9	2930.90.95
Schedule 2 B04	Sodium O-ethyl propylphosphonothioate	117122-90-4	2930.90.95
Schedule 2 B04	Sodium O-isobutyl methylphosphonothioate	74789-32-5	2930.90.95
Schedule 2 B04	Sodium O-isopropyl methylphosphonothioate	92475-33-7	2930.90.95

Reference	Chemical name	CAS number	CN code¹
Schedule 2 B04	Sodium O-methyl methylphosphonothioate	74789-31-4	2930.90.95
Schedule 2 B04	Sodium O-propyl methylphosphonothioate	51825-84-4	2930.90.95
Schedule 2 B05	Diethylphosphoramidic bromide fluoride	758-71-4	2929.90.90
Schedule 2 B05	Diethylphosphoramidic chloride fluoride	650-72-6	2929.90.90
Schedule 2 B05	Diethylphosphoramidic dichloride	1498-54-0	2929.90.90
Schedule 2 B05	Diethylphosphoramidic difluoride	359-94-4	2929.90.90
Schedule 2 B05	Diisopropylphosphoramidic dichloride	23306-80-1	2929.90.90
Schedule 2 B05	Dimethylphosphoramidic chloride fluoride	36598-84-2	2929.90.90
Schedule 2 B05	Dimethylphosphoramidic difluoride	354-43-8	2929.90.90
Schedule 2 B05	Dipropylphosphoramidic dichloride	40881-98-9	2929.90.90
Schedule 2 B05	Dipropylphosphoramidic difluoride	40882-01-7	2929.90.90
Schedule 2 B05	Ethylisopropylphosphoramidic dichloride	777943-37-0	2929.90.90
Schedule 2 B05	Ethylmethylphosphoramidic dichloride	777943-34-7	2929.90.90
Schedule 2 B05	Ethylpropylphosphoramidic dichloride	777943-38-1	2929.90.90
Schedule 2 B05	Isopropylmethylphosphoramidic dichloride	777943-36-9	2929.90.90
Schedule 2 B05	Methylpropylphosphoramidic dichloride	777943-35-8	2929.90.90
Schedule 2 B05	N,N-Dimethylaminophosphoryl dichloride	677-43-0	2929.90.10
Schedule 2 B06	Diethyl ethyl(methyl)phosphoramidate	53279-98-4	2929.90.90
Schedule 2 B06	Diethyl N,N-dimethylphosphoramidate	2404-03-7	2929.90.90
Schedule 2 B06	Diethyl N,N-dimethylphosphoramidate	2404-03-7	2929.90.90
Schedule 2 B06	Diethyl N,N-dipropylphosphoramidate	91043-34-4	2929.90.90
Schedule 2 B06	Diisopropyl N,N-dimethylphosphoramidate	2404-04-8	2929.90.90
Schedule 2 B06	Dimethyl N,N-diethylphosphoramidate	65659-19-0	2929.90.90
Schedule 2 B06	Dimethyl N,N-diisopropylphosphoramidate	170275-46-4	2929.90.90
Schedule 2 B06	Dimethyl N,N-dimethylphosphoramidate	597-07-9	2929.90.90
Schedule 2 B06	Dipropyl N,N-diethylphosphoramidate	22250-42-6	2929.90.90
Schedule 2 B06	Dipropyl N,N-dimethylphosphoramidate	98543-28-3	2929.90.90
Schedule 2 B06	Dipropyl N,N-dipropylphosphoramidate	17123-10-3	2929.90.90
Schedule 2 B06	Ethyl methyl N,N-diisopropylphosphoramidate	848216-15-9	2929.90.90

Reference	Chemical name	CAS number	CN code ¹
Schedule 2 B06	Phosphoramidic acid, diethyl-, diethyl ester	3167-69-9	2929.90.90
Schedule 2 B07	Arsenic trichloride; AsCl ₃	7784-34-1	2812.19.90
Schedule 2 B08	Benzilic acid	76-93-7	2918.17.00
Schedule 2 B09	3-Quinuclidinol	1619-34-7	2933.35.00
Schedule 2 B09	R(-)-3-Quinuclidinol	25333-42-0	2933.35.00
Schedule 2 B10	2-(N,N-Dimethylamino)ethylchloride hydrochloride	4584-46-7	2921.12.00
Schedule 2 B10	2-chloroethyl(diethyl)ammonium sulphate	68391-41-3	2921.19.99
Schedule 2 B10	2-Chloroethyldimethylamine	107-99-3	2921.19.99
Schedule 2 B10	2-chloro-N-ethyl-N-methylethanamine	54153-16-1	2921.19.99
Schedule 2 B10	2-chloro-N-ethyl-N-methylethanamine hydrochloride	4535-88-0	2921.19.99
Schedule 2 B10	Ethanamine, 2-chloro-N,N-diethyl-, sulfate	67845-39-0	2921.19.99
Schedule 2 B10	N-(2-chloroethyl)-N-(isopropyl)propan-1-amine	688299-03-8	2921.19.99
Schedule 2 B10	N-(2-chloroethyl)-N-ethylpropan-1-amine hydrochloride	13105-93-6	2921.19.99
Schedule 2 B10	N-(2-chloroethyl)-N-ethylpropan-2-amine	92204-40-5	2921.19.99
Schedule 2 B10	N-(2-chloroethyl)-N-isopropylpropan-1-amine hydrochloride	4535-89-1	2921.19.99
Schedule 2 B10	N-(2-chloroethyl)-N-methylpropan-1-amine	763884-48-6	2921.19.99
Schedule 2 B10	N-(2-chloroethyl)-N-methylpropan-2-amine hydrochloride	15512-81-9	2921.19.99
Schedule 2 B10	N-(2-chloroethyl)-N-methylpropan-2-amine	408326-30-7	2921.19.99
Schedule 2 B10	N-(2-chloroethyl)-N-propylpropan-1-amine	36716-60-6	2921.19.99
Schedule 2 B10	N-(2-chloroethyl)-N-propylpropan-1-amine hydrochloride	4535-86-8	2921.19.99
Schedule 2 B10	N,N-Diethylaminoethyl-2-chloride	100-35-6	2921.19.99
Schedule 2 B10	N,N-Diethylaminoethyl-2-chloride hydrochloride	869-24-9	2921.13.00
Schedule 2 B10	N,N-Diisopropyl-(beta)-aminoethyl chloride	96-79-7	2921.19.99
Schedule 2 B10	N,N-Diisopropyl-2-aminoethyl chloride hydrochloride	4261-68-1	2921.14.00
Schedule 2 B11	(2-Hydroxyethyl)dipropan-1-ylammonium chloride	4535-76-6	2922.19.00
Schedule 2 B11	2-(diisopropylamino)ethanol hydrochloride	63051-68-3	2922.19.00
Schedule 2 B11	2-(Dipropylamino)ethanol	3238-75-3	2922.19.00
Schedule 2 B11	2-(Ethylisopropylamino)ethanol	2893-61-0	2922.19.00
Schedule 2 B11	2-(Ethylmethylamino)ethanol	2893-43-8	2922.19.00

Reference	Chemical name	CAS number	CN code ¹
Schedule 2 B11	2-(Ethylpropylamino)ethanol	2893-56-3	2922.19.00
Schedule 2 B11	2-(Methylpropylamino)ethanol	2893-45-0	2922.19.00
Schedule 2 B11	2-(N,N-Diisopropylamino)ethanol hydrogen sulfide salt	1373773-53-5	2922.19.00
Schedule 2 B11	2-[isopropyl(methyl)amino]ethanol	2893-49-4	2922.19.00
Schedule 2 B11	2-[isopropyl(propyl)amino]ethanol	4535-77-7	2922.19.00
Schedule 2 B11	N,N-Diisopropyl-(beta)-amino-ethanol	96-80-0	2922.18.00
Schedule 2 B12	2-(Diisopropylamino)ethanethiol	5842-07-9	2930.90.95
Schedule 2 B12	2-(Dipropylamino)ethanethiol	5842-06-8	2930.90.95
Schedule 2 B12	2-(Ethylisopropylamino)ethanethiol	36759-67-8	2930.90.95
Schedule 2 B12	2-(Ethylpropylamino)ethanethiol	1018124-39-4	2930.90.95
Schedule 2 B12	2-(N,N-Diethylamino)ethanethiol	100-38-9	2930.60.00
Schedule 2 B12	2-(N,N-diethylamino)ethanethiolate sodium	58607-68-4	2930.90.95
Schedule 2 B12	2-(N-Ethyl-N-isopropylamino)ethanethiol hydrochloride	1017861-37-8	2930.90.95
Schedule 2 B12	2-(N-Ethyl-N-methylamino)ethanethiol hydrochloride	1017861-21-0	2930.90.95
Schedule 2 B12	2-(N-Ethyl-N-propylamino)ethanethiol hydrochloride	1017861-34-5	2930.90.95
Schedule 2 B12	2-(N-Isopropyl-N-methylamino)ethanethiol hydrochloride	1017861-29-8	2930.90.95
Schedule 2 B12	2-(N-Isopropyl-N-propylamino)ethanethiol hydrochloride	1017861-45-8	2930.90.95
Schedule 2 B12	2-(N-Methyl-N-propylamino)ethanethiol	1018124-38-3	2930.90.95
Schedule 2 B12	2-(N-Methyl-N-propylamino)ethanethiol hydrochloride	1017861-26-5	2930.90.95
Schedule 2 B12	2-[ethyl(methyl)amino]ethanethiol	63210-55-9	2930.90.95
Schedule 2 B12	2-[isopropyl(methyl)amino]ethanethiol	36759-66-7	2930.90.95
Schedule 2 B12	2-[isopropyl(propyl)amino]ethanethiol	36759-68-9	2930.90.95
Schedule 2 B12	Diethyl-2-mercaptoethylammonium chloride	1942-52-5	2930.90.95
Schedule 2 B12	N,N-Diisopropyl-(beta)-aminoethane thiol	5842-07-9	2930.90.95
Schedule 2 B12	N,N-Diisopropylaminoethanethiol hydrochloride	41480-75-5	2930.90.95
Schedule 2 B12	N,N-Dimethylaminoethane-2-thiol	108-02-1	2930.10.00
Schedule 2 B12	N,N-Dimethylaminoethane-2-thiol hydrochloride	13242-44-9	2930.90.95
Schedule 2 B13	Thiodiglycol	111-48-8	2930.70.00
Schedule 2 B14	Pinacolyl alcohol	464-07-3	2905.19.00

Reference	Chemical name	CAS number	CN code¹
Schedule 3 A01	Phosgene; COCl ₂	75-44-5	2812.11.00
Schedule 3 A02	Cyanogen chloride; CNCl	506-77-4	2853.10.00
Schedule 3 A03	Hydrogen cyanide; HCN	74-90-8	2811.12.00
Schedule 3 A04	Chloropicrin	76-06-2	2904.91.00
Schedule 3 B05	Phosphorus oxychloride; POCl ₃	10025-87-3	2812.12.00
Schedule 3 B06	Phosphorus trichloride; PCl ₃	7719-12-2	2812.13.00
Schedule 3 B07	Phosphorus pentachloride; PCl ₅	10026-13-8	2812.14.00
Schedule 3 B08	Trimethyl phosphite	121-45-9	2920.23.00
Schedule 3 B09	Triethyl phosphite	122-52-1	2920.24.00
Schedule 3 B10	Dimethyl phosphite	868-85-9	2920.21.00
Schedule 3 B11	Diethyl phosphite	762-04-9	2920.22.00
Schedule 3 B12	Sulphur monochloride; S ₂ Cl ₂	10025-67-9	2812.15.00
Schedule 3 B13	Sulphur dichloride; SCl ₂	10545-99-0	2812.16.00
Schedule 3 B14	Thionyl chloride; SOCl ₂	7719-09-7	2812.17.00
Schedule 3 B15	Ethyldiethanolamine	139-87-7	2922.17.00
Schedule 3 B16	Methyldiethanolamine	105-59-9	2922.17.00
Schedule 3 B17	Triethanolamine	102-71-6	2922.15.00

¹ In bold new chemicals or new CN codes.

Source: European Commission.

2.2. Dual-use goods

Dual-use goods have both civil and military applications, including systems, equipment, components, materials, software and technologies for manufacturing, aerospace, electronics, chemical, biological and medical, nuclear, telecommunications, cyber-security, marine, navigation, avionics, energy production and laser applications.

Regulation (EU) No 2021/821 controls the export of dual-use items which can assist the production and/or the proliferation of WMD, including certain chemicals which may be used as precursors for toxic chemical agents. Annex I of the regulation, also known as the “EU dual-use control list”, is amended annually by a Commission Delegated Act on the basis of the international export control regimes’ decisions and its latest version was published in November 2025: (EU) No 2025/2003.³²

The codification system used for the identification of dual-use items, including chemicals, was established as an alpha-numeric code called Export Control Number (ECN) consisting of basic 5 characters. As shown in Table 2, the first character is a 0-9 digit corresponding to the category (10 in total), the second is a letter (A to E) which refers to the subcategory, while the third character (0-4) identifies the Multilateral Export Control Regime. Two more digits (letters and/or numbers) can be added to the 5 basic characters for additional subdivision which can occur to label chemicals falling in the same group.

Table 2. Dual-use codification system.

Category	Subcategory	Export Control Regime	Codification
0=Nuclear materials	A=Systems, equipment and components B=test, inspection and production equipment C=materials D=software E=technology	0=Wassenaar Arrangement (WA)	two more digits to identify each item. Sub-bullets, letters and numbers could follow for further subdivision
1=Special materials		1=Missile Technology Control Regime (MTCR)	
2=Materials processing		2=Nuclear Suppliers Group	
3=Electronics		3=Australia Group	
4=Computers		4=Chemical Weapons Convention (CWC)	
5=telecommunications and “information security”		5= Consensus minus one controls (Wassenaar Arrangement)	
6=Sensors and lasers			
7=Navigation and avionics			
8=Marine			
9=Aerospace and propulsion			

Source: European Commission.

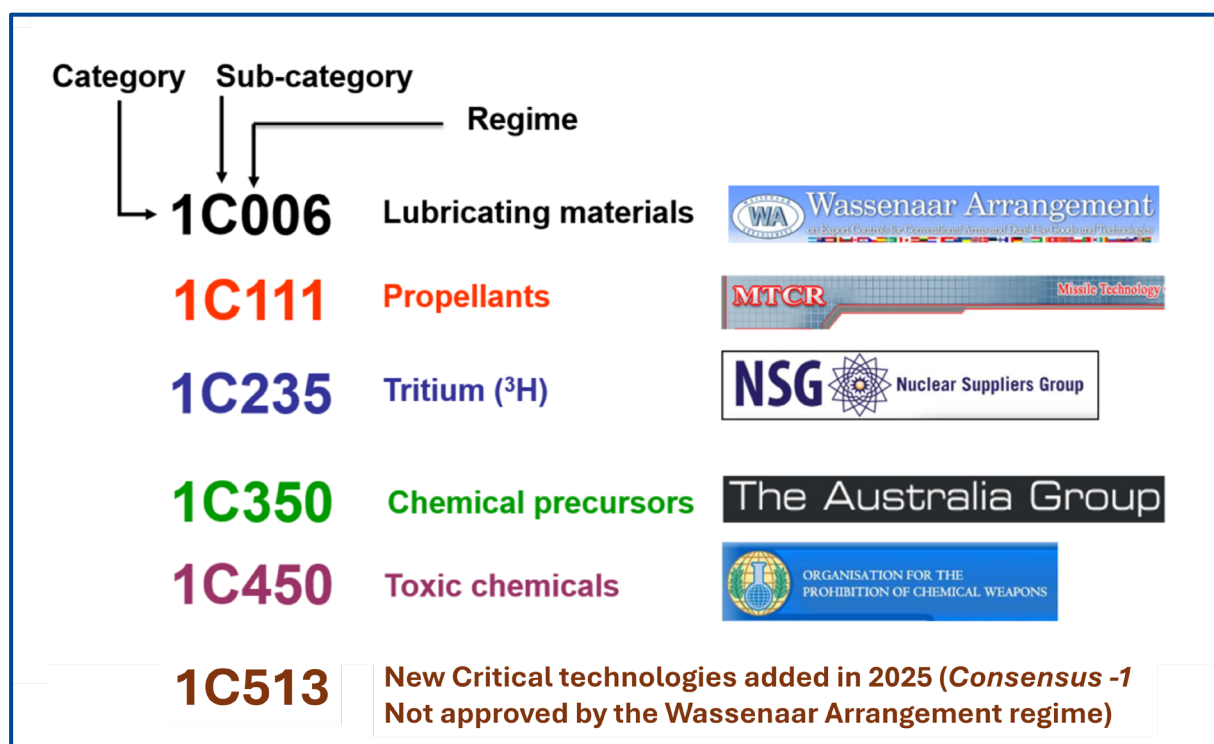
³² Commission Delegated Regulation (EU) 2025/2003 of 8 September 2025 amending Regulation (EU) 2021/821 of the European Parliament and of the Council as regards the list of dual-use items, https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=OJ%3AL_202502003

Concerning the 10 categories into which the EU dual-use control list is divided, most of the chemicals are classified into Category 1 (special materials), and in less common occurrence into Category 0 for nuclear fuel cycle-related materials, or Category 6 for certain chemicals with specific optical properties.

The sub-categories, indicated by the A-E letters in second column, correspond to the type of item (for example, C corresponds to “materials”, which is the type of item listed in this handbook).

As shown in Figure 6, the third digit identifies the Multilateral Export Control Regime pursuant to which the item is controlled.

Figure 6. Description of Export Control Number (ECN) codes.



Source: European Commission.

Below, a list of some examples of ECN codes follows whereas the chemical substances listed in the EU dual-use control list are shown in Table 3.

- Number 0 refers to the Wassenaar Arrangement (WA) which for instance controls certain chemicals used as lubricating materials (1C006) like polyfluoroalkyl substances (PFAS).
- Number 1 refers to the Missile Technology Control Regime (MTCR) which includes propellants (1C111) like nitrogen oxides and synthetic hydrocarbon compounds.
- Number 2 refers to the Nuclear Suppliers Group (NSG) which controls, for example, Tritium (1C235) and strongly radioactive substances as Polonium-210 (1C236).
- Number 3 refers to the Australia Group, the regime that focuses on chemical precursors for toxic substances used as chemical weapons like Pinacolone (1C350.39) which is used for the synthesis of the nerve agent Soman or Triethanolamine (1C350.53) which can be precursor of nitrogen mustards.

- Number 4 indicates those chemicals already under the scope of the Chemical Weapons Convention as Amiton (1C450.a.1) or Phosgene (1C450.a.4).
- Number 5 concerns controls on dual-use Additive Manufacturing, Quantum technology and Advanced semiconductors. This is a new series marked by number “5” recently added by the EU to highlight items agreed by all the Wassenaar Arrangement participating governments *minus one*.

Compliance with this complex regulation is called for by the guidelines of the international export control regimes^{33;34}, further supported by: 1) the EU Recommendation 2019/1318³⁵ on internal compliance programmes for dual-use trade controls put in place by exporters to ensure compliance with EU and national dual-use trade control laws and regulations; 2) the EU Recommendation 2021/1700³⁶ for export compliance of dual-use research.

Table 3. Chemicals subject to the dual-use regulation (EU) No 2021/821.

Reference	Chemical name	CAS number	CN code ¹
OC001	Diammonium heptaoxodiuranate; (NH ₄) ₂ U ₂ O ₇	7783-22-4	2844 (heading)
OC001	Disodium heptaoxodiuranate; Na ₂ U ₂ O ₇ ·H ₂ O	13721-34-1	2844.30.91
OC001	Thorium acetate	13075-28-0	2844.30.91
OC001	Thorium benzoate	N/A	2844.30.91
OC001	Thorium bromide; ThBr ₄	13453-49-1	2844.30.91
OC001	Thorium carbide; ThC ₂	12012-16-7	2844.30.91
OC001	Thorium chloride; ThCl ₄	10026-08-1	2844.30.91
OC001	Thorium fluoride; ThF ₄	13709-59-6	2844.30.91
OC001	Thorium formiate	N/A	2844.30.91
OC001	Thorium hydroxide; Th(OH) ₄	N/A	2844.30.91
OC001	Thorium nitrate tetrahydrate; Th(NO ₃) ₄ ·4H ₂ O	13470-07-0	2844.30.91
OC001	Thorium nitrate; Th(NO ₃) ₄	13823-29-5	2844.30.91

³³ The 2011 Wassenaar Arrangement Best Practice Guidelines on Internal Compliance Programmes for Dual-Use Goods and Technologies, <https://www.wassenaar.org/app/uploads/2015/06/2-Internal-Compliance-Programmes.pdf>

³⁴ The 'Best Practice Guide for Industry' from the Nuclear Suppliers Group (NSG), <https://nuclearsuppliersgroup.org/index.php/en/guidelines/nsg-guidelines>

³⁵ Commission Recommendation (EU) 2019/1318 of 30 July 2019 on internal compliance programmes for dual-use trade controls under Council Regulation (EC) No 428/2009, <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32019H1318>

³⁶ Commission Recommendation (EU) 2021/1700 of 15 September 2021 on internal compliance programmes for controls of research involving dual-use items under Regulation (EU) 2021/821 of the European Parliament and of the Council setting up a Union regime for the control of exports, brokering, technical assistance, transit and transfer of dual-use items, <https://eur-lex.europa.eu/eli/reco/2021/1700/oj>

Reference	Chemical name	CAS number	CN code ¹
OC001	Thorium nitride; ThN	12033-65-7	2844.30.91
OC001	Thorium oxide; ThO ₂	1314-20-1	2844.30.91
OC001	Thorium perchlorate; Th(ClO ₄) ₄	16045-17-3	2844.30.91
OC001	Thorium sulphate monohydrate; Th(SO ₄) ₂ ·9H ₂ O	10381-37-0	2844.30.91
OC001	Thorium sulphide; ThS ₂	12138-07-7	2844.30.91
OC001	Thorium tartrate	N/A	2844.30.91
OC001	Triuranium octoxide; U ₃ O ₈	1344-59-8	2844 (heading)
OC001	Uranium carbide; UC	12070-09-6	2844 (heading)
OC001	Uranium dicarbide; UC ₂	12071-33-9	2844 (heading)
OC001	Uranium dioxide; UO ₂	1344-57-6	2844 (heading)
OC001	Uranium hexafluoride; UF ₆	7783-81-5	2844 (heading)
OC001	Uranium nitride; UN	25658-43-9	2844 (heading)
OC001	Uranium tetrachloride; UCl ₄	10026-10-5	2844 (heading)
OC001	Uranium tetrafluoride; UF ₄	10049-14-6	2844 (heading)
OC001	Uranium trifluoride; UF ₃	13775-06-9	2844 (heading)
OC001	Uranium trioxide; UO ₃	1344-58-7	2844 (heading)
OC001	Uranium-233; ²³³ U	13968-55-3	2844.43.10
OC001	Uranyl nitrate hexahydrate; UO ₂ (NO ₃) ₂ ·6H ₂ O	13520-83-7	2844 (heading)
OC001	Uranyl sulphate; UO ₂ SO ₄ ·3H ₂ O	20910-28-5	2844 (heading)
OC002	Diammonium heptaoxodiuranate; (NH ₄) ₂ U ₂ O ₇	7783-22-4	2844 (heading)
OC002	Diplutonium tricarbide; Pu ₂ C ₃	N/A	2844.20.99
OC002	Disodium heptaoxodiuranate; Na ₂ U ₂ O ₇ ·H ₂ O	13721-34-1	2844 (heading)
OC002	Plutonium carbide; PuC	N/A	2844.20.99
OC002	Plutonium dioxide; PuO ₂	12059-95-9	2844.20.99
OC002	Plutonium hexafluoride; PuF ₆	13693-06-6	2844.20.99
OC002	Plutonium nitrate; Pu(NO ₃) ₄	13823-27-3	2844.20.99
OC002	Plutonium nitride; PuN	12033-54-4	2844.20.99
OC002	Plutonium tetrafluoride; PuF ₄	13709-56-3	2844.20.99
OC002	Plutonyl nitrate	N/A	2844.20.99

Reference	Chemical name	CAS number	CN code ¹
0C002	Triuranium octoxide; U ₃ O ₈	1344-59-8	2844 (heading)
0C002	Uranium carbide; UC	12070-09-6	2844 (heading)
0C002	Uranium dicarbide; UC ₂	12071-33-9	2844 (heading)
0C002	Uranium dioxide; UO ₂	1344-57-6	2844 (heading)
0C002	Uranium hexafluoride; UF ₆	7783-81-5	2844 (heading)
0C002	Uranium nitride; UN	25658-43-9	2844 (heading)
0C002	Uranium tetrachloride; UCl ₄	10026-10-5	2844 (heading)
0C002	Uranium tetrafluoride; UF ₄	10049-14-6	2844 (heading)
0C002	Uranium trifluoride; UF ₃	13775-06-9	2844 (heading)
0C002	Uranium trioxide; UO ₃	1344-58-7	2844 (heading)
0C002	Uranyl nitrate hexahydrate; UO ₂ (NO ₃) ₂ ·6H ₂ O	13520-83-7	2844 (heading)
0C002	Uranyl sulphate; UO ₂ SO ₄ ·3H ₂ O	20910-28-5	2844 (heading)
0C005	Nickel powder	7440-02-0	7504.00.00
1C006.c	1,1-dibromotetrafluoroethane; Halon 2402	27336-23-8	2903.76.90
1C006.c	1,2-dibromotetrafluoroethane; Halon 2402	124-73-2	2903.76.90
1C006.c	Dibromotetrafluoroethane; Halon 2402	25497-30-7	2903.76.90
1C006.d	1-(Trifluoromethoxy)-1,1,2,2-tetrafluoroethane; E 227	2356-61-8	2909.19.90
1C006.d	1,1,1,2,3,3-Hexafluoro-2,3-bis(trifluoromethoxy)propane	95842-02-7	2909.19.90
1C006.d	1,1,2,2,3,3,3-heptafluoro-N,N-bis(1,1,2,2,2-pentafluoroethyl)propan-1-amine	338-81-8	2921.19.99
1C006.d	1,1,2,2,3,3-Hexafluoro-1-(trifluoromethoxy)propane	67490-36-2	2909.19.90
1C006.d	1,1,2,3,4,4-Hexafluoro-1,2,3,4-tetrakis(heptafluoropropoxy)butane	54208-66-1	2909.19.90
1C006.d	2,4,7,9-Tetraoxadecane, 1,1,1,5,5,6,6,10,10,10-decafluoro-3,3,8,8-tetrakis(trifluoromethyl)	95841-80-8	2909.19.90
1C006.d	2H-Perfluoro-5,8,11,14,17-Pentamethyl-3,6,9,12,15,18-Hexaoxaheneicosane	55154-18-2	2909.19.90
1C006.d	2H-Perfluoro-5,8,11,14-Tetramethyl-3,6,9,12,15-Pentaoxaoctadecane	37486-69-4	2909.19.90
1C006.d	2H-Perfluoro-5,8,11-Trimethyl-3,6,9,12-Tetraoxapentadecane	26738-51-2	2909.19.90
1C006.d	2H-Perfluoro-5,8-Dimethyl-3,6,9-Trioxadodecane	3330-16-3	2909.19.90

Reference	Chemical name	CAS number	CN code ¹
1C006.d	2H-Perfluoro-5-Methyl-3,6-Dioxanonane	3330-14-1	2909.19.90
1C006.d	Butane, 1,1,2,3,4,4-hexafluoro-1,2,3,4-tetrakis(heptafluoropropoxy)-, (R*,S*)	54572-17-7	2909.19.90
1C006.d	Ether, 2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl trifluoromethyl	681-08-3	2909.19.90
1C006.d	Heptafluoropropyl 1,2,2,2-tetrafluoroethyl ether	3330-15-2	2909.19.90
1C006.d	Heptafluoropropyl pentafluoroethyl ether	66840-50-4	2909.19.90
1C006.d	Heptane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7-pentadecafluoro-7-(trifluoromethoxy)-	133881-46-6	2909.19.90
1C006.d	Hexane, 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-(1,1,2,2,2-pentafluoroethoxy)-	133080-89-4	2909.19.90
1C006.d	Methane, tetrakis(trifluoromethoxy)-	92639-87-7	2909.19.90
1C006.d	Pentane, 1,1,1,2,2,3,3,4,5,5,5-undecafluoro-4-(pentafluoroethoxy)	92978-07-9	2909.19.90
1C006.d	perfluoro(di-n-butyl-ethylamine)	103811-99-0	2921.19.99
1C006.d	Perfluoro(methylcyclohexane)	355-02-2	2903.89.70
1C006.d	Perfluoro(tert-butylcyclohexane)	84808-64-0	2903.89.70
1C006.d	Perfluoro-1,2-dimethylcyclobutane	2994-71-0	2903.89.70
1C006.d	Perfluoro-1,2-dimethylcyclohexane	306-98-9	2903.89.70
1C006.d	Perfluoro-1,3,5-trimethylcyclohexane	374-76-5	2903.89.70
1C006.d	Perfluoro-1,3-dimethylcyclohexane	335-27-3	2903.89.70
1C006.d	Perfluoro-1,4-diisopropoxybutane	23228-90-2	2909.19.90
1C006.d	Perfluoro-1,4-dimethylcyclohexane	374-77-6	2903.89.70
1C006.d	Perfluoro-2,3-dimethylbutane	354-96-1	2903.49.30
1C006.d	Perfluoro-2,3-dimethylpentane	335-14-8	2903.49.30
1C006.d	Perfluoro-2,7-dimethyloctane	3021-63-4	2903.49.30
1C006.d	Perfluoro-2-butyltetrahydrofuran	335-36-4	2909.19.90
1C006.d	Perfluoro-2-methyl-3-ethylpentane	354-97-2	2903.49.30
1C006.d	Perfluoro-2-methylbutane	594-91-2	2903.49.30
1C006.d	Perfluoro-2-trifluoromethyl-4-oxanonane	169477-62-7	2909.19.90
1C006.d	Perfluoro-3-ethyl-2,3-dimethylpentane	50285-19-3	2903.49.30

Reference	Chemical name	CAS number	CN code ¹
1C006.d	Perfluoro-3-isopropyl-2-methylpentane	50285-18-2	2903.49.30
1C006.d	Perfluoro-3-methylpentane	865-71-4	2903.49.30
1C006.d	Perfluoro-5,6-dimethyl-4,7-dioxadecane	2501-01-1	2909.19.90
1C006.d	Perfluoro-butylcyclohexane	374-60-7	2903.89.70
1C006.d	Perfluorodecalin	306-94-5	2903.89.70
1C006.d	Perfluorodiethyl ether	358-21-4	2909.19.90
1C006.d	Perfluoroheptane	335-57-9	2903.49.30
1C006.d	Perfluorohexane	355-42-0	2903.49.30
1C006.d	Perfluoromethylcyclopentane	1805-22-7	2903.89.70
1C006.d	Perfluoro-n-dibutyl ether	308-48-5	2909.19.90
1C006.d	Perfluorononane	375-96-2	2903.49.30
1C006.d	Perfluoro-n-propylcyclohexane	374-59-4	2903.89.70
1C006.d	Perfluorooctane	307-34-6	2903.49.30
1C006.d	Perfluoropentane	678-26-2	2903.49.30
1C006.d	Perfluoropentylamine	134380-80-6	2921.19.99
1C006.d	Perfluorotetraglyme	64028-06-4	2909.19.90
1C006.d	Perfluoro-triethylamine	359-70-6	2921.19.99
1C006.d	Perfluorotriglyme	64028-04-2	2909.19.90
1C006.d	Perfluoro-tri-n-butylamine	311-89-7	2921.19.99
1C006.d	Perfluoro-tri-n-butylamine	86508-42-1	2921.19.99
1C006.d	Perfluoro-tri-n-propylamine	338-83-0	2921.19.99
1C006.d	Perfluorotripentylamine	143356-32-5	2921.19.99
1C006.d	Propane, 1,1,1,2,3,3-hexafluoro-2,3-bis(1,1,2,2,2-pentafluoroethoxy)-	95842-03-8	2909.19.90
1C006.d	Tris(perfluoropentyl)amine	338-84-1	2921.19.99
1C006.d	Tris(tridecafluorohexyl)amine	432-08-6	2921.19.99
1C011.a	Magnesium powder	7439-95-4	8104.30.00
1C011.a	Zirconium powder	7440-67-7	8109.29.00
1C011.b	Boron carbide powder: B ₄ C	12069-32-8	2849.90.10

Reference	Chemical name	CAS number	CN code ¹
1C011.b	Boron powder	7440-42-8	2804.50.10
1C011.c	Guanidine nitrate	506-93-4	2925.29.00
1C011.d	Nitroguanidine	556-88-7	2929.90.90
1C011.e	Iodine pentafluoride	7783-66-6	2812.90.00
1C012	Diplutonium tricarbide; Pu ₂ C ₃	N/A	2844.20.99
1C012	Plutonium carbide; PuC	N/A	2844.20.99
1C012	Plutonium hexafluoride; PuF ₆	13693-06-6	2844.20.99
1C012	Plutonium nitrate; Pu(NO ₃) ₄	13823-27-3	2844.20.99
1C012	Plutonium nitride; PuN	12033-54-4	2844.20.99
1C012	Plutonium tetrafluoride; PuF ₄	13709-56-3	2844.20.99
1C012.a	Plutonyl nitrate	N/A	2844.20.99
1C012.b	Neptunium-237	13994-20-2	2844.43.80
1C107	Graphite	7782-42-5	3801.10.00
1C111.a.1	Aluminium powder	7429-90-5	7603.10.00
1C111.a.2.a.1	Zirconium powder	7440-67-7	8109.29.00
1C111.a.2.a.2	Beryllium powder	7440-41-7	8112.12.00
1C111.a.2.a.3	Magnesium powder	7439-95-4	8104.30.00
1C111.a.2.b	Boron powder	7440-42-8	2804.50.10
1C111.a.3.a	Dinitrogen trioxide; N ₂ O ₃	10544-73-7	2811.29.30
1C111.a.3.b	Dinitrogen tetroxide; N ₂ O ₄	10544-72-6	2811.29.30
1C111.a.3.b	Nitrogen dioxide; NO ₂	10102-44-0	2811.29.30
1C111.a.3.c	Dinitrogen pentoxide; N ₂ O ₅	10102-03-1	2811.29.30
1C111.a.3.d	Mixed oxydes of nitrogen; MON _x	N/A	3824.99.96
1C111.a.3.e	Inhibited red fuming nitric acid; IRFNA	8007-58-7	2808.00.00
1C111.a.3.f	Nitrogen trifluoride; NF ₃	7783-54-2	2812.90.00
1C111.a.3.f	Perchloryl trifluoride; ClO ₃ F	7616-94-6	2812.90.00
1C111.a.4.a	Trimethylhydrazine	1741-01-1	2928.00.90
1C111.a.4.b	Tetramethylhydrazine	6415-12-9	2928.00.90
1C111.a.4.c	N,N-Diallylhydrazine	5164-11-4	2928.00.90

Reference	Chemical name	CAS number	CN code ¹
1C111.a.4.d	Allylhydrazine	7422-78-8	2928.00.90
1C111.a.4.e	Ethylene dihydrazine	6068-98-0	2928.00.90
1C111.a.4.f	Monomethylhydrazine dinitrate	N/A	2928.00.90
1C111.a.4.g	Unsymmetrical dimethylhydrazine nitrate	N/A	2928.00.90
1C111.a.4.h	Hydrazinium azide	14546-44-2	2825.10.00
1C111.a.4.i	1,1-Dimethylhydrazinium azide	227955-52-4	2928.00.90
1C111.a.4.i	1,2-Dimethylhydrazinium azide	299177-50-7	2928.00.90
1C111.a.4.j	Hydrazinium dinitrate	13464-98-7	2825.10.00
1C111.a.4.k	Diimido oxalic acid dihydrazine	3457-37-2	2928.00.90
1C111.a.4.l	2-hydroxyethylhydrazine nitrate; HEHN	N/A	2928.00.90
1C111.a.4.m	Hydrazinium perchlorate	27978-54-7	2825.10.00
1C111.a.4.n	Hydrazinium diperchlorate	13812-39-0	2825.10.00
1C111.a.4.o	Methylhydrazine nitrate	29674-96-2	2928.00.90
1C111.a.4.p	1,1-Diethylhydrazine nitrate; DEHN	N/A	2928.00.90
1C111.a.4.p	1,2-Diethylhydrazine nitrate; DEHN	36453-17-2	2928.00.90
1C111.a.4.q	3,6-Dihydrazino tetrazine nitrate; DHTN	N/A	2933.99.80
1C111.a.5.b	1,2-dimethyladamantane	702-79-4	2902.19.00
1C111.a.5.b	Cubane	277-10-1	2902.19.00
1C111.a.5.b	Dihydrobenzvalene	287-12-7	2902.19.00
1C111.a.5.b	exo-tetrahydro-dicyclopentadiene	2825-82-3	2902.19.00
1C111.a.5.b	Perhydro-dinorbornadiene	66289-74-5	2902.19.00
1C111.a.5.b	Quadricyclane	278-06-8	2902.19.00
1C111.a.5.b	Tricyclo[2.2.1.0(2,6)]heptane	279-19-6	2902.19.00
1C111.a.6.a	1,2-Dimethylaminoethylazide; DMAZ	86147-04-8	2928.00.90
1C111.b.1	Carboxy-terminated polybutadiene; CTPB	N/A	4002.20.00
1C111.b.2	Hydroxyl terminated polybutadiene; HTPB	69102-90-5	4002.20.00
1C111.b.3	Polybutadiene-acrylic acid; PBAA	N/A	4002.99.90
1C111.b.4	Polybutadiene-acrylic acid-acrylonitrile; PBAN	N/A	4002.99.90
1C111.b.5	Polytetrahydrofuran polyethylene glycol; TPEG	N/A	3907.29.20

Reference	Chemical name	CAS number	CN code ¹
1C111.b.6	PolyglycidylNitrate; Poly-GLYN or PGN	27814-48-8	3907.29.11
1C111.c.1	Carboranes	N/A	2934.99.90
1C111.c.1	Decaborane; B ₁₀ H ₄	17702-41-9	2850.00.20
1C111.c.1	Pentaborane-9; B ₅ H ₉	19624-22-7	2850.00.20
1C111.c.1	Pentaborane-11; B ₅ H ₁₁	18433-84-6	2850.00.20
1C111.c.2	Triethylene glycol dinitrate; TEGDN	111-22-8	2920.90.70
1C111.c.3	2-Nitrodiphenylamine	119-75-5	2921.44.00
1C111.c.4	Trimethylolethane trinitrate; TMETN	3032-55-1	2920.90.70
1C111.c.5	Diethylene glycol dinitrate; DEGDN	693-21-0	2920.90.70
1C111.c.6.a	Catocene	37206-42-1	2931.90.00
1C111.c.6.b	Ethyl ferrocene	1273-89-8	2931.90.00
1C111.c.6.c	iso-propyl ferrocene	12126-81-7	2931.90.00
1C111.c.6.c	n-Propyl ferrocene	1273-92-3	2931.90.00
1C111.c.6.d	n-Butyl ferrocene	31904-29-7	2931.90.00
1C111.c.6.e	Pentyl ferrocene	1274-00-6	2931.90.00
1C111.c.6.f	Dicyclopentyl ferrocene	125861-17-8	2931.90.00
1C111.c.6.g	Dicyclohexyl ferrocene	N/A	2931.90.00
1C111.c.6.h	Diethyl ferrocene	1273-97-8	2931.90.00
1C111.c.6.i	Dipropyl ferrocene	N/A	2931.90.00
1C111.c.6.j	Dibutyl ferrocene	1274-08-4	2931.90.00
1C111.c.6.k	Dihexyl ferrocene	93894-59-8	2931.90.00
1C111.c.6.l	1,1'-Diacetyl ferrocene	1273-94-5	2931.90.00
1C111.c.6.l	Acetyl ferrocene	1271-55-2	2931.90.00
1C111.c.6.m	Ferrocene carboxylic acid	1271-42-7	2931.90.00
1C111.c.6.m	1,1'-Ferrocenedicarboxylic acid	1293-87-4	2931.90.00
1C111.c.6.n	Butacene	125856-62-4	4002.20.00
1C111.c.7	4,5-diazidomethyl-2-methyl-1,2,3-triazole; iso-DAMTR	N/A	2933.99.80
1C117.a	Tungsten powder	7440-33-7	8101.10.00
1C117.b	Molybdenum powder	7439-98-7	8102.10.00

Reference	Chemical name	CAS number	CN code ¹
1C225	Boron-10; ¹⁰ B	14798-12-0	2845.20.00
1C227	Calcium	7440-70-2	2805.12.00
1C228	Magnesium >99.8%	7439-95-4	8104.11.00
1C229	Bismuth >99.99%	7440-69-9	8106.10 (subheading)
1C230	Beryllium carbonate; BeCO ₃	13106-47-3	2836.99.17
1C230	Beryllium chloride; BeCl ₂	7787-47-5	2827.39.85
1C230	Beryllium fluoride; BeF ₂	7787-49-7	2826.19.90
1C230	Beryllium hydroxide; Be(OH) ₂	13327-32-7	2825.90.20
1C230	Beryllium nitrate; Be(NO ₃) ₂	13597-99-4	2834.29.20
1C230	Beryllium oxide; BeO	1304-56-9	2825.90.20
1C230	Beryllium phosphate; Be ₃ (PO ₄) ₂	13598-15-7	2835.29.90
1C230	Beryllium powder	7440-41-7	8112.12.00
1C230	Beryllium sulphate anhydrous; BeSO ₄	13510-49-1	2833.29.80
1C230	Beryllium sulphate tetrahydrate; BeSO ₄ ·4H ₂ O	7787-56-6	2833.29.80
1C231	Hafmium tetrafluoride; HfF ₄	13709-52-9	2826.19.90
1C231	Hafnium boride; HfB ₂	12007-23-7	2850.00.90
1C231	Hafnium carbide; HfC ₄	12069-85-1	2849.90.90
1C231	Hafnium dioxide; HfO ₂	12055-23-1	2825.90.85
1C231	Hafnium nitride; HfN	25817-87-2	2850.00.20
1C231	Hafnium oxychloride; HfOCl ₂	13759-17-6	2827.49.90
1C231	Hafnium powder	7440-58-6	8112.31.00
1C231	Hafnium silicate; HfSiO ₄	13870-13-8	2839.90.00
1C231	Hafnium sulphide; HfS ₂	18855-94-2	2830.90.85
1C232	Helium-3; ³ He	14762-55-1	2845.40.00
1C233	Lithium-6; ⁶ Li	14258-72-1	2845.30.00
1C234	Zirconium (nuclear grade)	7440-67-7	8109.21.00
1C234	Zirconium (nuclear grade)	7440-67-7	8109.31.00
1C234	Zirconium (nuclear grade)	7440-67-7	8109.91.00

Reference	Chemical name	CAS number	CN code ¹
1C235	Tritium; ³ H	10028-17-8	2844.41 (subheading)
1C236	Actinium-225; ²²⁵ Ac	14265-85-1	2844.42 (subheading)
1C236	Actinium-227; ²²⁷ Ac	14952-40-0	2844.42 (subheading)
1C236	Californium-253; ²⁵³ Cf	15720-29-3	2844.42 (subheading)
1C236	Curium-240; ²⁴⁰ Cm	15411-90-2	2844.42 (subheading)
1C236	Curium-241; ²⁴¹ Cm	15411-91-3	2844.42 (subheading)
1C236	Curium-242; ²⁴² Cm	15510-73-3	2844.42 (subheading)
1C236	Curium-243; ²⁴³ Cm	15757-87-6	2844.42 (subheading)
1C236	Curium-244; ²⁴⁴ Cm	13981-15-2	2844.42 (subheading)
1C236	Einsteinium-253; ²⁵³ Es	15840-02-5	2844.42 (subheading)
1C236	Einsteinium-254; ²⁵⁴ Es	15840-03-6	2844.42 (subheading)
1C236	Gadolinium-148; ¹⁴⁸ Gd	14119-21-2	2844.42 (subheading)
1C236	Plutonium-236; ²³⁶ Pu	15411-92-4	2844.20.99
1C236	Plutonium-238; ²³⁸ Pu	13981-16-3	2844.20.99
1C236	Polonium-208; ²⁰⁸ Po	N/A	2844.42 (subheading)
1C236	Polonium-209; ²⁰⁹ Po	N/A	2844.42 (subheading)
1C236	Polonium-210; ²¹⁰ Po	13981-52-7	2844.42 (subheading)
1C236	Radium-223; ²²³ Ra	15623-45-7	2844.42 (subheading)
1C236	Thorium-227; ²²⁷ Th	15623-47-9	2844.30 (subheading)
1C236	Thorium-228; ²²⁸ Th	14274-82-9	2844.30 (subheading)

Reference	Chemical name	CAS number	CN code ¹
1C236	Uranium-230; ²³⁰ U	15743-51-8	2844.42 (subheading)
1C236	Uranium-232; ²³² U	14158-29-3	2844.42 (subheading)
1C237	Radium-226; ²²⁶ Ra	13982-63-3	2844.43.20
1C238	Chlorine trifluoride; ClF ₃	7790-91-2	2812.90.00
1C239	Dipotassium dinitraminobistetrazolate; K2DNABT	N/A	2933.99.80
1C239	Potassium 3,6-bis(4-nitramino-1,2,5-oxadiazol-3-yl)-1,2,4,5-dioxadiazine; K2BNOD	N/A	2934.99.90
1C239	Potassium 4,4'-Bis(dinitromethyl)-3,3'-Azofurazanate; K2BDTAF	N/A	2934.99.90
1C239	Potassium 6-Nitro-5-oxidopyrazolo [3,4-c][1,2,5] oxadiazol-4-ide; KNODP	N/A	2934.99.90
1C240	Nickel powder	7440-02-0	7504.00.00
1C350.1	Thiodiglycol	111-48-8	2930.70.00
1C350.2	Phosphorus oxychloride; POCl ₃	10025-87-3	2812.12.00
1C350.3	Dimethyl methylphosphonate	756-79-6	2931.41.00
1C350.4	Methylphosphonyl difluoride; DF	676-99-3	2931.59.10
1C350.5	Methylphosphonyl dichloride	676-97-1	2931.51.00
1C350.6	Dimethyl phosphite	868-85-9	2920.21.00
1C350.7	Phosphorus trichloride; PCl ₃	7719-12-2	2812.13.00
1C350.8	Trimethyl phosphite	121-45-9	2920.23.00
1C350.9	Thionyl chloride; SOCl ₂	7719-09-7	2812.17.00
1C350.10	3-Hydroxy-1-methylpiperidine	3554-74-3	2933.39.99
1C350.11	N,N-Diisopropyl-(beta)-aminoethyl chloride	96-79-7	2921.19.99
1C350.12	N,N-Diisopropyl-(beta)-aminoethane thiol	5842-07-9	2930.90.95
1C350.13	3-Quinuclidinol	1619-34-7	2933.35.00
1C350.13	R-(-)-3-Quinuclidinol	25333-42-0	2933.35.00
1C350.14	Potassium fluoride; KF	7789-23-3	2826.19.90
1C350.15	2-Chloroethanol	107-07-3	2905.59.98
1C350.16	Dimethylamine	124-40-3	2921.11.00

Reference	Chemical name	CAS number	CN code ¹
1C350.17	Diethyl ethylphosphonate	78-38-6	2931.43.00
1C350.18	Diethyl N,N-dimethylphosphoramidate	2404-03-7	2929.90.90
1C350.19	Diethyl phosphite	762-04-9	2920.22.00
1C350.20	Dimethylamine hydrochloride	506-59-2	2921.11.00
1C350.21	Ethylphosphinyl dichloride	1498-40-4	2931.59.90
1C350.22	Ethylphosphonyl dichloride	1066-50-8	2931.59.90
1C350.23	Ethylphosphonyl difluoride	753-98-0	2931.59.90
1C350.24	Hydrogen fluoride; HF	7664-39-3	2811.11.00
1C350.25	Methyl benzilate	76-89-1	2918.19.98
1C350.26	Methylphosphinyl dichloride	676-83-5	2931.59.90
1C350.27	N,N-Diisopropyl-(beta)-amino-ethanol	96-80-0	2922.18.00
1C350.28	Pinacolyl alcohol	464-07-3	2905.19.00
1C350.29	O-Ethyl O-2-diisopropylaminoethyl methylphosphonite; QL	57856-11-8	2931.49.80
1C350.30	Triethyl phosphite	122-52-1	2920.24.00
1C350.31	Arsenic trichloride; AsCl ₃	7784-34-1	2812.19.90
1C350.32	Benzilic acid	76-93-7	2918.17.00
1C350.33	Diethyl methylphosphonite	15715-41-0	2931.49.80
1C350.34	Dimethyl ethylphosphonate	6163-75-3	2931.49.80
1C350.35	Ethylphosphinyl difluoride	430-78-4	2931.59.90
1C350.36	Methylphosphinyl difluoride	753-59-3	2931.59.90
1C350.37	3-Quinuclidone	3731-38-2	2933.39.99
1C350.38	Phosphorus pentachloride; PCl ₅	10026-13-8	2812.14.00
1C350.39	Pinacolone	75-97-8	2914.19.90
1C350.40	Potassium cyanide; KCN	151-50-8	2837.19.00
1C350.41	Potassium bifluoride; KHF ₂	7789-29-9	2826.19.90
1C350.42	Ammonium hydrogen fluoride; (NH ₄)HF ₂	1341-49-7	2826.19.10
1C350.43	Sodium fluoride; NaF	7681-49-4	2826.19.10
1C350.44	Sodium bifluoride; NaHF ₂	1333-83-1	2826.19.10
1C350.45	Sodium cyanide; NaCN	143-33-9	2837.11.00

Reference	Chemical name	CAS number	CN code ¹
1C350.46	Triethanolamine	102-71-6	2922.15.00
1C350.47	Phosphorus pentasulphide	1314-80-3	2813.90.10
1C350.48	Diisopropylamine	108-18-9	2921.19.99
1C350.49	Diethylaminoethanol	100-37-8	2922.19.00
1C350.50	Sodium sulphide; Na ₂ S	1313-82-2	2830.10.00
1C350.51	Sulphur monochloride; S ₂ Cl ₂	10025-67-9	2812.15.00
1C350.52	Sulphur dichloride: SCl ₂	10545-99-0	2812.16.00
1C350.53	Triethanolamine hydrochloride	637-39-8	2922.19.00
1C350.54	N,N-Diisopropyl-2-aminoethyl chloride hydrochloride	4261-68-1	2921.14.00
1C350.55	Methylphosphonic acid	993-13-5	2931.44.00
1C350.56	Diethyl methylphosphonate	683-08-9	2931.49.80
1C350.57	N,N-Dimethylaminophosphoryl dichloride	677-43-0	2929.90.10
1C350.58	Triisopropyl phosphite	116-17-6	2920.29.00
1C350.59	Ethyl-diethanolamine	139-87-7	2922.17.00
1C350.60	O,O-Diethyl phosphorothioate	2465-65-8	2920.19.00
1C350.61	O,O-Diethyl phosphorodithioate	298-06-6	2920.19.00
1C350.62	Sodium hexafluorosilicate; Na ₂ SiF ₆	16893-85-9	2826.90.80
1C350.63	Methylphosphonothioic dichloride	676-98-2	2931.59.90
1C350.64	Diethylamine	109-89-7	2921.19.50
1C350.65	N,N-Diisopropylaminoethanethiol hydrochloride	41480-75-5	2930.90.95
1C350.66	Methyl dichlorophosphate	677-24-7	2920.90.70
1C350.67	Ethyl dichlorophosphate	1498-51-7	2920.90.70
1C350.68	Methyl difluorophosphate	22382-13-4	2920.90.70
1C350.69	Ethyl difluorophosphate	460-52-6	2920.90.70
1C350.70	Diethyl chlorophosphite	589-57-1	2920.29.00
1C350.71	Methyl chlorofluorophosphate	754-01-8	2920.90.70
1C350.72	Ethyl chlorofluorophosphate	762-77-6	2920.90.70
1C350.73	N,N-Dimethylformamidine	44205-42-7	2925.29.00
1C350.74	N,N-Diethylformamidine	90324-67-7	2925.29.00

Reference	Chemical name	CAS number	CN code ¹
1C350.75	N,N-Dipropylformamidine	48044-20-8	2925.29.00
1C350.76	N,N-Diisopropylformamidine	857522-08-8	2925.29.00
1C350.77	N,N-Dimethylacetamidine	2909-14-0	2925.29.00
1C350.78	N,N-Diethylacetamidine	14277-06-6	2925.29.00
1C350.79	N,N-Dipropylacetamidine	1339586-99-0	2925.29.00
1C350.80	N,N-Dimethylpropanamidine	56776-14-8	2925.29.00
1C350.81	N,N-Diethylpropanamidine	84764-73-8	2925.29.00
1C350.82	N,N-Dipropylpropanamidine	1341496-89-6	2925.29.00
1C350.83	N,N-Dimethylbutanamidine	1340437-35-5	2925.29.00
1C350.84	N,N-Diethylbutanamidine	53510-30-8	2925.29.00
1C350.85	N,N-Dipropylbutanamidine	1342422-35-8	2925.29.00
1C350.86	N,N-Diisopropylbutanamidine	1315467-17-4	2925.29.00
1C350.87	N,N-Dimethylisobutanamidine	321881-25-8	2925.29.00
1C350.88	N,N-Diethylisobutanamidine	1342789-47-2	2925.29.00
1C350.89	N,N-Dipropylisobutanamidine	1342700-45-1	2925.29.00
1C350.90	Dipropylamine	142-84-7	2921.19.99
1C351.d.1	ADP-ribosyltransferase C3	58319-92-9	3002.49.00
1C351.d.1	Botulinum Toxin A	93384-43-1	3002.49.00
1C351.d.1	Botulinum Toxin B	93384-44-2	3002.49.00
1C351.d.2	α -Clostridium perfringens	9001-67-6	3002.49.00
1C351.d.2	β 1-Clostridium perfringens	N/A	3002.49.00
1C351.d.2	β 2-Clostridium perfringens	N/A	3002.49.00
1C351.d.2	ϵ -Clostridium perfringens	N/A	3002.49.00
1C351.d.2	Iota-Clostridium perfringens	N/A	3002.49.00
1C351.d.3	α -Conotoxin AulB	216299-21-7	3002.49.00
1C351.d.3	α -Conotoxin MII	175735-93-0	3002.49.00
1C351.d.3	α -Conotoxin PIA	669050-68-4	3002.49.00
1C351.d.3	α -Conotoxin PnIA	705300-84-1	3002.49.00
1C351.d.4	Ricin	9009-86-3	3002.49.00

Reference	Chemical name	CAS number	CN code¹
1C351.d.4	Ricin A chain	96638-28-7	3002.49.00
1C351.d.4	ω -Conotoxin GVIA	106375-28-4	3002.49.00
1C351.d.4	ω -Conotoxin MVIIIC	147794-23-8	3002.49.00
1C351.d.5	Saxitoxin	35523-89-8	3002.49.00
1C351.d.5	Shigatoxin	75757-64-1	3002.49.00
1C351.d.7	α -Hemolysin	94716-94-6	3002.49.00
1C351.d.7	Staphylococcal enterotoxin B	11100-45-1	3002.49.00
1C351.d.8	Tetrodotoxin; TTX	4368-28-9	2939.80.00
1C351.d.10	Microcystin LA	96180-79-9	3002.49.00
1C351.d.10	Microcystin LR, from <i>Microcystis aeruginosa</i>	101043-37-2	3002.49.00
1C351.d.10	Microcystin-YR	101064-48-6	3002.49.00
1C351.d.11	Aflatoxin B1	1162-65-8	2932.20.90
1C351.d.11	Aflatoxin B2	7220-81-7	2932.20.90
1C351.d.11	Aflatoxin G1	1165-39-5	2932.20.90
1C351.d.11	Aflatoxin G2	7241-98-7	2932.20.90
1C351.d.11	Aflatoxin M1	6795-23-9	2932.20.90
1C351.d.11	Aflatoxin M2	6885-57-0	2932.20.90
1C351.d.11	Aflatoxin mix	1402-68-2	2932.20.90
1C351.d.12	L-Abrin	526-31-8	3002.49.00
1C351.d.14	Diacetoxyscirpenol	2270-40-8	2932.99.00
1C351.d.15	T-2 toxin	21259-20-1	2932.99.00
1C351.d.16	HT-2 toxin	26934-87-2	2932.99.00
1C351.d.17	Modeccin	65988-88-7	3002.49.00
1C351.d.18	Volkensin	91933-11-8	3002.49.00
1C351.d.19	Viscumin	84929-55-5	3002.49.00
1C351.d.20	Brevetoxin PBTX-1	98112-41-5	3002.49.00
1C351.d.20	Brevetoxin PbTx-2	79580-28-2	3002.49.00
1C351.d.20	Brevetoxin PBTX-3	85079-48-7	3002.49.00
1C351.d.20	Brevetoxin PBTX-9	155751-73-8	3002.49.00

Reference	Chemical name	CAS number	CN code ¹
1C351.d.21	Gonyautoxin II	60508-89-6	3002.49.00
1C351.d.22	Nodularins	118399-22-7	3002.49.00
1C351.d.23	Palytoxin	77734-91-9	3002.49.00
1C351.d.24	Neosaxitoxin; NEO	64296-20-4	3002.49.00
1C450.a.1	[2-(diethylthiophosphor-S-yl)ethyl]diethylammonium hydrogen oxalate; Amiton salt	3734-97-2	2930.90.95
1C450.a.1	2-[(diethoxyphosphoryl)sulfanyl]-N,N,N-triethylethanaminium; Amiton salt	20194-81-4	2930.90.95
1C450.a.1	O,O-diethyl S-[2-(diethylamino)ethyl] phosphorothioate; Amiton	78-53-5	2930.90.95
1C450.a.2	1,1,3,3,3-pentafluoro-2-(trifluoromethyl)prop-1-ene; PFIB	382-21-8	2903.59.00
1C450.a.3	3-Quinuclidinyl benzilate; BZ	6581-06-2	2933.39.99
1C450.a.4	Phosgene; COCl ₂	75-44-5	2812.11.00
1C450.a.5	Cyanogen chloride; CNCl	506-77-4	2853.10.00
1C450.a.6	Hydrogen cyanide; HCN	74-90-8	2811.12.00
1C450.a.7	Chloropicrin	76-06-2	2904.91.00
1C450.b.1	(5-Ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl)methyl methyl methylphosphonate	41203-81-0	2931.47.00
1C450.b.1	(E)-2-Butenyl methylphosphonofluoridoate	138780-00-4	2931.59.90
1C450.b.1	1,2,2-Trimethylpropyl ethylphosphonate	143663-83-6	2931.49.80
1C450.b.1	1,2,2-Trimethylpropyl isopropylphosphonate	249934-16-5	2931.49.80
1C450.b.1	1,2,2-Trimethylpropyl methylphosphonate	616-52-4	2931.49.80
1C450.b.1	1,2,2-Trimethylpropyl propylphosphonate	249934-12-1	2931.49.80
1C450.b.1	1-Methylbutyl methylphosphonate	198885-54-0	2931.49.80
1C450.b.1	1-Methylheptyl methylphosphonate	148456-51-3	2931.49.80
1C450.b.1	1-Methylpentyl methylphosphonate	944146-50-3	2931.49.80
1C450.b.1	1-Methylprop-2-yn-1-yl methylphosphonofluoridoate	30593-71-6	2931.59.90
1C450.b.1	2,4,6-Tripropyl-1,3,5,2,4,6-trioxatriphosphinane 2,4,6-trioxide	68957-94-8	2931.46.00
1C450.b.1	2-Ethylhexyl methylphosphonate	13688-82-9	2931.49.80
1C450.b.1	2-Methylpropyl methyl methylphosphonate	150799-85-2	2931.49.80

Reference	Chemical name	CAS number	CN code ¹
1C450.b.1	3,9-Dimethyl-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane 3,9-dioxide	3001-98-7	2931.48.00
1C450.b.1	4-Methylpentyl methylphosphonate	944146-51-4	2931.49.80
1C450.b.1	Aluminium methyl methylphosphonate	35851-62-8	2931.49.80
1C450.b.1	Aluminium methyl propylphosphonate	114076-21-0	2931.49.80
1C450.b.1	Bis(1,2,2-trimethylpropyl) ethylphosphonate	169739-48-4	2931.49.80
1C450.b.1	Bis(1,2,2-trimethylpropyl) methylphosphonate	7040-58-6	2931.49.80
1C450.b.1	Bis(1,2,2-trimethylpropyl) propylphosphonate	192438-31-6	2931.49.80
1C450.b.1	Bis(1,3-dimethylbutyl) methylphosphonate	959028-09-2	2931.49.80
1C450.b.1	Bis(1-ethylpropyl) methylphosphonate	5828-67-1	2931.49.80
1C450.b.1	Bis(1-methylbutyl) methylphosphonate	460091-25-2	2931.49.80
1C450.b.1	Bis(1-methylethyl) methylphosphonate	1445-75-6	2931.49.80
1C450.b.1	Bis(1-methylheptyl) methylphosphonate	76341-63-4	2931.49.80
1C450.b.1	Bis(1-methylpentyl) methylphosphonate	1020119-28-1	2931.49.50
1C450.b.1	Bis(2-chloroethyl) methylphosphonate	2799-58-8	2931.59.90
1C450.b.1	Bis(2-ethylhexyl) methylphosphonate	60556-68-5	2931.49.80
1C450.b.1	Bis(2-methoxyethyl) ethylphosphonate	170275-34-0	2931.49.80
1C450.b.1	Bis(2-methoxyethyl) methylphosphonate	6069-09-6	2931.49.80
1C450.b.1	Bis(polyoxyethylene) methylphosphonate	363626-50-0	3907.21.00
1C450.b.1	Bis[(5-Ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl)methyl] methylphosphonate	42595-45-9	2931.49.20
1C450.b.1	Boranylidene methylphosphanium	14975-23-6	2931.49.80
1C450.b.1	Butyl methyl methylphosphonate	683-32-9	2931.49.80
1C450.b.1	Butyl methylphosphinate	6172-80-1	2931.49.60
1C450.b.1	Butyl methylphosphonate	1832-55-9	2931.49.80
1C450.b.1	Butyl methylphosphonochloridoate	23164-47-8	2931.59.90
1C450.b.1	Cyclohexyl ethylphosphonate	170424-87-0	2931.49.80
1C450.b.1	Cyclohexyl ethylphosphonochloridoate	57523-33-8	2931.59.90
1C450.b.1	Cyclohexyl methyl methylphosphonate	7040-52-0	2931.49.80
1C450.b.1	Cyclohexyl methylphosphonate	1932-60-1	2931.49.80

Reference	Chemical name	CAS number	CN code¹
1C450.b.1	Cyclohexyl methylphosphonochloridoate	7040-92-8	2931.59.90
1C450.b.1	Dibutyl methylphosphonate	2404-73-1	2931.49.80
1C450.b.1	Dibutyl propylphosphonate	4628-12-0	2931.49.80
1C450.b.1	Dicyclohexyl methylphosphonate	7040-53-1	2931.49.80
1C450.b.1	Dicyclopentyl methylphosphonate	22583-27-3	2931.49.80
1C450.b.1	Diethyl ethylphosphonite	2651-85-6	2931.49.80
1C450.b.1	Diethyl isopropylphosphonate	1538-69-8	2931.49.80
1C450.b.1	Diethyl isopropylphosphonite	61820-31-3	2931.49.80
1C450.b.1	Diethyl propylphosphonate	18812-51-6	2931.49.80
1C450.b.1	Diheptyl methylphosphonate	77304-64-4	2931.49.80
1C450.b.1	Dihexyl isopropylphosphonate	148456-62-6	2931.49.80
1C450.b.1	Dihexyl methylphosphonate	77304-63-3	2931.49.80
1C450.b.1	Diisopropyl dimethyldiphosphonate	28616-51-5	2931.49.80
1C450.b.1	Diisopropyl ethylphosphonate	1067-69-2	2931.49.80
1C450.b.1	Diisopropyl isopropylphosphonate	3759-39-5	2931.49.80
1C450.b.1	Diisopropyl propylphosphonate	18812-55-0	2931.49.80
1C450.b.1	Dimethyl ethylphosphonite	15715-42-1	2931.49.80
1C450.b.1	Dimethyl isopropylphosphonate	54552-77-1	2931.49.80
1C450.b.1	Dimethyl propylphosphonate	18755-43-6	2931.42.00
1C450.b.1	Dinonyl methylphosphonate	95428-88-9	2931.49.80
1C450.b.1	Diocetyl ethylphosphonate	6156-13-4	2931.49.80
1C450.b.1	Diocetyl isopropylphosphonate	83218-22-8	2931.49.80
1C450.b.1	Diocetyl methylphosphonate	1832-68-4	2931.49.80
1C450.b.1	Diocetyl propylphosphonate	959044-15-6	2931.49.80
1C450.b.1	Diphenyl methylphosphonate	7526-26-3	2931.49.80
1C450.b.1	Dipinacolyl dimethyldiphosphonate	81397-56-0	2931.49.80
1C450.b.1	Dipropyl isopropylphosphonate	192698-90-1	2931.49.80
1C450.b.1	Dipropyldiphosphonic acid	71760-04-8	2931.49.80
1C450.b.1	Ethyl ethylphosphonate	7305-61-5	2931.49.80

Reference	Chemical name	CAS number	CN code ¹
1C450.b.1	Ethyl isopropylphosphonate	4546-11-7	2931.49.80
1C450.b.1	Ethyl methyl ethylisopropylphosphoramidate	906801-34-1	2929.90.90
1C450.b.1	Ethyl methyl methylphosphonate	18755-36-7	2931.49.80
1C450.b.1	Ethyl methylphosphinate	16391-07-4	2931.49.80
1C450.b.1	Ethyl methylphosphonate	1832-53-7	2931.49.80
1C450.b.1	Ethyl methylphosphonite	89034-24-2	2931.49.80
1C450.b.1	Ethyl methylphosphonochloridoate	5284-09-3	2931.59.90
1C450.b.1	Ethyl N,N-diethyl-P-methylphosphonamidate	2404-81-1	2931.49.80
1C450.b.1	Ethyl propylphosphonochloridoate	28830-00-4	2931.59.90
1C450.b.1	Ethyl S-dicyclohexylammonium methylphosphonothiolate	73790-51-9	2930.90.95
1C450.b.1	Ethylphosphonic acid	6779-09-5	2931.49.80
1C450.b.1	Ethylphosphonothioic dichloride	993-43-1	2931.59.90
1C450.b.1	Ethylphosphonothioic O,O-acid	13991-98-5	2930.90.95
1C450.b.1	Heptyl methylphosphonate	170275-32-8	2931.49.80
1C450.b.1	Hexyl methylphosphonate	148456-69-3	2931.49.80
1C450.b.1	Isobutyl isopropylphosphonochloridoate	170082-70-9	2931.59.90
1C450.b.1	Isobutyl methylphosphonate	1604-38-2	2931.49.80
1C450.b.1	Isobutyl methylphosphonochloridoate	18359-05-2	2931.59.90
1C450.b.1	Isobutyl propylphosphonochloridoate	13213-47-3	2931.59.90
1C450.b.1	Isopropyl 1,2,2-trimethylpropyl methylphosphonate	92411-67-1	2931.49.80
1C450.b.1	Isopropyl ethylphosphonate	170135-50-9	2931.49.80
1C450.b.1	Isopropyl ethylphosphonochloridoate	28829-95-0	2931.59.90
1C450.b.1	Isopropyl isopropylphosphonate	249934-15-4	2931.49.80
1C450.b.1	Isopropyl methyl isopropylphosphonate	331954-04-2	2931.49.80
1C450.b.1	Isopropyl methyl phosphonic acid	1832-54-8	2931.49.80
1C450.b.1	Isopropyl methyl propylphosphonate	211923-89-6	2931.49.80
1C450.b.1	Isopropyl propylphosphonate	53621-99-1	2931.49.80
1C450.b.1	Isopropylphosphonic dichloride	1498-46-0	2931.52.00
1C450.b.1	Isopropylphosphonothioic dichloride	1498-60-8	2930.90.95

Reference	Chemical name	CAS number	CN code ¹
1C450.b.1	Isopropylphosphonous dichloride	25235-15-8	2931.59.90
1C450.b.1	Methyl 1,2,2-trimethylpropyl methylphosphonate	7040-59-7	2931.49.80
1C450.b.1	Methyl 3-(trimethoxysilyl)propyl methylphosphonate	67812-17-3	2931.49.80
1C450.b.1	Methyl isopropylphosphonate	249934-13-2	2931.49.80
1C450.b.1	Methyl methylphosphonate	1066-53-1	2931.49.80
1C450.b.1	Methyl propyl isopropylphosphonate	741700-63-0	2931.49.80
1C450.b.1	Methyl propyl propylphosphonate	18755-44-7	2931.49.80
1C450.b.1	Methylphosphinic acid	4206-94-4	2931.49.80
1C450.b.1	Methylphosphonic acid compound with N-(aminoiminomethyl)urea (1:1)	84402-58-4	2931.45.00
1C450.b.1	Methylphosphonothioic O,O-acid	5994-73-0	2930.90.95
1C450.b.1	Methyltriphenoxyphosphonium iodide	17579-99-6	2931.49.80
1C450.b.1	Mixture of CAS RN 41203-81-0 and CAS RN 42595-45-9	170836-68-7	3824.91.00
1C450.b.1	Nonyl methylphosphonate	1832-60-6	2931.49.80
1C450.b.1	O-(3-chloropropyl) O-[4-nitro-3-(trifluoromethyl)phenyl] methylphosphonothionate	849-29-6	2931.53.00
1C450.b.1	O,O-Dibutyl methylphosphonothioate	18628-73-4	2930.90.95
1C450.b.1	O,O-Diethyl methylphosphonothioate	6996-81-2	2930.90.95
1C450.b.1	O,O-Dipentyl methylphosphonothioate	91964-75-9	2930.90.95
1C450.b.1	Octyl isopropylphosphonate	108506-63-4	2931.49.80
1C450.b.1	Octyl methylphosphonate	1832-58-2	2931.49.80
1C450.b.1	Octyl propylphosphonate	781566-65-2	2931.49.80
1C450.b.1	O-Cyclohexyl methylphosphonofluoridothioate	4241-34-3	2930.90.95
1C450.b.1	O-ethyl ethylchloridothiophosphonate	1497-68-3	2930.90.95
1C450.b.1	O-Ethyl methylphosphonochloridothioate	2524-16-5	2930.90.95
1C450.b.1	O-Ethyl S-hydrogen methylphosphonothioate	18005-40-8	2930.90.95
1C450.b.1	O-Isobutyl methylphosphonothioate	20626-99-7	2930.90.95
1C450.b.1	O-Methyl ethylphosphonochloridothioate	1497-69-4	2930.90.95
1C450.b.1	O-Methyl methylphosphonochloridothioate	2524-15-4	2930.90.95
1C450.b.1	O-Propyl methylphosphonothionochloridoate	18005-37-3	2930.90.95

Reference	Chemical name	CAS number	CN code ¹
1C450.b.1	Pentamethylphosphonic diamide	2511-17-3	2931.49.80
1C450.b.1	Phenyl ethylphosphonofluoridoate	959259-83-7	2931.59.90
1C450.b.1	Phenyl methylphosphonofluoridoate	133826-40-1	2931.59.90
1C450.b.1	Phosphonic acid, methyl-, polyglycol ester; Exolit OP 560	663176-00-9	3824.92.00
1C450.b.1	Phosphonic acid, methyl-, polyglycol ester; Exolit OP 560 TP	294675-51-7	3824.92.00
1C450.b.1	Phosphonothioic acid, P-methyl-, O,S-diethyl ester	2511-10-6	2930.90.95
1C450.b.1	Phosphorus oxide, polymer with dimethyl methylphosphonate and oxirane; Fyroltex HP or Fyrol 51	70715-06-9	3824.99.86
1C450.b.1	P-methylphosphonic diamide	4759-30-2	2931.49.80
1C450.b.1	Poly(1,3-phenylene methyl phosphonate)	63747-58-0	3911.20.00
1C450.b.1	Product from the reaction of Methylphosphonic acid and 1,2-Ethanediamine	99580-93-5	2931.49.80
1C450.b.1	Product from the reaction of Methylphosphonic acid and 1,3,5-Triazine-2,4,6-triamine 2,4,6-triamine	129788-86-9	2931.49.80
1C450.b.1	Propyl 1,2,2-trimethylpropyl methylphosphonate	90550-49-5	2931.49.80
1C450.b.1	Propyl isopropylphosphonate	741700-67-4	2931.49.80
1C450.b.1	Propyl methylphosphonate	4546-11-6	2931.49.80
1C450.b.1	Propyl methylphosphonochloridoate	15110-09-5	2931.59.90
1C450.b.1	Propyl propylphosphonate	21921-97-1	2931.49.80
1C450.b.1	Propylphosphonic acid	4672-38-2	2931.49.80
1C450.b.1	Propylphosphonothioic dichloride	2524-01-8	2930.90.95
1C450.b.1	Propylphosphonothioic O,O-acid	27797-35-9	2930.90.95
1C450.b.1	Propylphosphonyl dichloride	4708-04-7	2931.52.00
1C450.b.1	S,S-Diethyl methylphosphonodithioate	995-88-0	2930.90.95
1C450.b.1	S-2-Dipropylaminoethyl methylphosphonothionofluoridoate	28841-40-9	2930.90.95
1C450.b.1	sec-butyl isopropylphosphonochloridoate	170082-69-6	2931.49.80
1C450.b.1	Sec-butyl propylphosphonochloridoate	170082-71-0	2931.59.90
1C450.b.1	S-Methyl methylphosphonochloridothioate	13113-89-8	2930.90.95
1C450.b.1	S-Methyl methylphosphonothioate	73675-56-6	2930.90.95
1C450.b.1	Sodium 3-(trihydroxysilyl)propyl methylphosphonate	84962-98-1	2931.49.10

Reference	Chemical name	CAS number	CN code¹
1C450.b.1	Sodium O-butyl methylphosphonothioate	51825-85-5	2930.90.95
1C450.b.1	Sodium O-ethyl ethylphosphonothioate	17390-16-8	2930.90.95
1C450.b.1	Sodium O-ethyl methylphosphonothioate	22307-81-9	2930.90.95
1C450.b.1	Sodium O-ethyl propylphosphonothioate	117122-90-4	2930.90.95
1C450.b.1	Sodium O-isobutyl methylphosphonothioate	74789-32-5	2930.90.95
1C450.b.1	Sodium O-isopropyl methylphosphonothioate	92475-33-7	2930.90.95
1C450.b.1	Sodium O-methyl methylphosphonothioate	74789-31-4	2930.90.95
1C450.b.1	Sodium O-propyl methylphosphonothioate	51825-84-4	2930.90.95
1C450.b.2	Diethylphosphoramidic bromide fluoride	758-71-4	2929.90.90
1C450.b.2	Diethylphosphoramidic chloride fluoride	650-72-6	2929.90.90
1C450.b.2	Diethylphosphoramidic dichloride	1498-54-0	2929.90.90
1C450.b.2	Diethylphosphoramidic difluoride	359-94-4	2929.90.90
1C450.b.2	Diisopropylphosphoramidic dichloride	23306-80-1	2929.90.90
1C450.b.2	Dimethylphosphoramidic chloride fluoride	36598-84-2	2929.90.90
1C450.b.2	Dimethylphosphoramidic difluoride	354-43-8	2929.90.90
1C450.b.2	Dipropylphosphoramidic dichloride	40881-98-9	2929.90.90
1C450.b.2	Dipropylphosphoramidic difluoride	40882-01-7	2929.90.90
1C450.b.2	Ethylisopropylphosphoramidic dichloride	777943-37-0	2929.90.90
1C450.b.2	Ethylmethylphosphoramidic dichloride	777943-34-7	2929.90.90
1C450.b.2	Ethylpropylphosphoramidic dichloride	777943-38-1	2929.90.90
1C450.b.2	Isopropylmethylphosphoramidic dichloride	777943-36-9	2929.90.90
1C450.b.2	Methylpropylphosphoramidic dichloride	777943-35-8	2929.90.90
1C450.b.3	Diethyl ethyl(methyl)phosphoramidate	53279-98-4	2929.90.90
1C450.b.3	Diethyl N,N-dimethylphosphoramidate	2404-03-7	2929.90.90
1C450.b.3	Diethyl N,N-dipropylphosphoramidate	91043-34-4	2929.90.90
1C450.b.3	Diisopropyl N,N-dimethylphosphoramidate	2404-04-8	2929.90.90
1C450.b.3	Dimethyl N,N-diethylphosphoramidate	65659-19-0	2929.90.90
1C450.b.3	Dimethyl N,N-diisopropylphosphoramidate	170275-46-4	2929.90.90
1C450.b.3	Dimethyl N,N-dimethylphosphoramidate	597-07-9	2929.90.90

Reference	Chemical name	CAS number	CN code ¹
1C450.b.3	Dipropyl N,N-diethylphosphoramidate	22250-42-6	2929.90.90
1C450.b.3	Dipropyl N,N-dimethylphosphoramidate	98543-28-3	2929.90.90
1C450.b.3	Dipropyl N,N-dipropylphosphoramidate	17123-10-3	2929.90.90
1C450.b.3	Ethyl methyl N,N-diisopropylphosphoramidate	848216-15-9	2929.90.90
1C450.b.3	Phosphoramidic acid, diethyl-, diethyl ester	3167-69-9	2929.90.90
1C450.b.4	2-(N,N-Dimethylamino)ethylchloride hydrochloride	4584-46-7	2921.12.00
1C450.b.4	2-chloroethyl(diethyl)ammonium sulphate	68391-41-3	2921.19.99
1C450.b.4	2-Chloroethyldimethylamine	107-99-3	2921.19.99
1C450.b.4	2-chloro-N-ethyl-N-methylethanamine	54153-16-1	2921.19.99
1C450.b.4	2-chloro-N-ethyl-N-methylethanamine hydrochloride	4535-88-0	2921.19.99
1C450.b.4	Ethanamine, 2-chloro-N,N-diethyl-, sulfate	67845-39-0	2921.19.99
1C450.b.4	N-(2-chloroethyl)-N-(isopropyl)propan-1-amine	688299-03-8	2921.19.99
1C450.b.4	N-(2-chloroethyl)-N-ethylpropan-1-amine hydrochloride	13105-93-6	2921.19.99
1C450.b.4	N-(2-chloroethyl)-N-ethylpropan-2-amine	92204-40-5	2921.19.99
1C450.b.4	N-(2-chloroethyl)-N-isopropylpropan-1-amine hydrochloride	4535-89-1	2921.19.99
1C450.b.4	N-(2-chloroethyl)-N-methylpropan-1-amine	763884-48-6	2921.19.99
1C450.b.4	N-(2-chloroethyl)-N-methylpropan-2-amine hydrochloride	15512-81-9	2921.19.99
1C450.b.4	N-(2-chloroethyl)-N-methylpropan-2-amine	408326-30-7	2921.19.99
1C450.b.4	N-(2-chloroethyl)-N-propylpropan-1-amine	36716-60-6	2921.19.99
1C450.b.4	N-(2-chloroethyl)-N-propylpropan-1-amine hydrochloride	4535-86-8	2921.19.99
1C450.b.4	N,N-Diethylaminoethyl-2-chloride	100-35-6	2921.19.99
1C450.b.4	N,N-Diethylaminoethyl-2-chloride hydrochloride	869-24-9	2921.13.00
1C450.b.5	(2-Hydroxyethyl)dipropan-1-ylammonium chloride	4535-76-6	2922.19.00
1C450.b.5	2-(diisopropylamino)ethanol hydrochloride	63051-68-3	2922.19.00
1C450.b.5	2-(Dipropylamino)ethanol	3238-75-3	2922.19.00
1C450.b.5	2-(Ethylisopropylamino)ethanol	2893-61-0	2922.19.00
1C450.b.5	2-(Ethylmethylamino)ethanol	2893-43-8	2922.19.00
1C450.b.5	2-(Ethylpropylamino)ethanol	2893-56-3	2922.19.00
1C450.b.5	2-(Methylpropylamino)ethanol	2893-45-0	2922.19.00

Reference	Chemical name	CAS number	CN code ¹
1C450.b.5	2-(N,N-Diisopropylamino)ethanol hydrogen sulfide salt	1373773-53-5	2922.19.00
1C450.b.5	2-[isopropyl(methyl)amino]ethanol	2893-49-4	2922.19.00
1C450.b.5	2-[isopropyl(propyl)amino]ethanol	4535-77-7	2922.19.00
1C450.b.6	2-(Diisopropylamino)ethanethiol	5842-07-9	2930.90.95
1C450.b.6	2-(Dipropylamino)ethanethiol	5842-06-8	2930.90.95
1C450.b.6	2-(Ethylisopropylamino)ethanethiol	36759-67-8	2930.90.95
1C450.b.6	2-(Ethylpropylamino)ethanethiol	1018124-39-4	2930.90.95
1C450.b.6	2-(N,N-Diethylamino)ethanethiol	100-38-9	2930.60.00
1C450.b.6	2-(N,N-diethylamino)ethanethiolate sodium	58607-68-4	2930.90.95
1C450.b.6	2-(N-Ethyl-N-isopropylamino)ethanethiol hydrochloride	1017861-37-8	2930.90.95
1C450.b.6	2-(N-Ethyl-N-methylamino)ethanethiol hydrochloride	1017861-21-0	2930.90.95
1C450.b.6	2-(N-Ethyl-N-propylamino)ethanethiol hydrochloride	1017861-34-5	2930.90.95
1C450.b.6	2-(N-Isopropyl-N-methylamino)ethanethiol hydrochloride	1017861-29-8	2930.90.95
1C450.b.6	2-(N-Isopropyl-N-propylamino)ethanethiol hydrochloride	1017861-45-8	2930.90.95
1C450.b.6	2-(N-Methyl-N-propylamino)ethanethiol	1018124-38-3	2930.90.95
1C450.b.6	2-(N-Methyl-N-propylamino)ethanethiol hydrochloride	1017861-26-5	2930.90.95
1C450.b.6	2-[ethyl(methyl)amino]ethanethiol	63210-55-9	2930.90.95
1C450.b.6	2-[isopropyl(methyl)amino]ethanethiol	36759-66-7	2930.90.95
1C450.b.6	2-[isopropyl(propyl)amino]ethanethiol	36759-68-9	2930.90.95
1C450.b.6	Diethyl-2-mercaptoethylammonium chloride	1942-52-5	2930.90.95
1C450.b.6	N,N-Dimethylaminoethane-2-thiol	108-02-1	2930.10.00
1C450.b.6	N,N-Dimethylaminoethane-2-thiol hydrochloride	13242-44-9	2930.90.95
1C450.b.7	Ethyldiethanolamine	139-87-7	2922.17.00
1C450.b.8	Methyldiethanolamine	105-59-9	2922.17.00
6C002.a	Tellurium	13494-80-9	2804.50.90
6C002.b.1	Cadmium Zinc telluride; CdZnTe	303114-50-3	2842.90.10
6C002.b.2	Cadmium telluride; CdTe	1306-25-8	2842.90.10
6C002.b.3	Mercury Cadmium telluride; HgCdTe	29870-72-2	2842.90.10
6C004.a	Zinc selenide; ZnSe	1315-09-9	2842.90.10

Reference	Chemical name	CAS number	CN code¹
6C004.b	Gallium selenide; GaSe	12024-11-2	2842.90.10
6C004.b	Potassium tinanyl arsenate; KTA	59400-80-5	2842.90.80
6C004.b	Silver gallium selenide; AgGaSe ₂ (AGSE)	12002-67-4	2842.90.10
6C004.b	Thallium arsenic selenide; Tl ₃ AsSe ₃ (TAS)	16142-89-5	2842.90.10
6C004.b	Zinc germanium phosphide; ZnGeP ₂ (ZGP)	N/A	2853.90.90

¹ in bold new chemicals or new CN codes.

Source: European Commission.

2.3. Common Military List

On 6 March 2025, the Official Journal of the European Union published the latest version of the Common Military List of the European Union³⁷, updating and replacing the Common Military List of the European Union adopted by the Council, which describes equipment, including a large amount of chemicals, governed by the common rules of the control of exports of military technology and equipment included in the Council Common Position 2008/944/CFSP.

Effective trade controls depend primarily on the awareness of exporters and their active efforts to comply with trade restrictions. To this end, in September 2019 the Council of the EU published a user’s guide³⁸, that provides a framework to help exporters identify, manage and mitigate risks associated with the export of military items to ensure compliance with the relevant EU and national laws and regulations.

Items included in the military list are classified in 22 categories based on their type and/or application. Chemicals are classified in categories ML7 (toxics) and ML8 (energetic materials), as shown in table below. They are listed in the Table 5.

Table 4. Codification of military items.

Category	Subdivision	Numeric code
ML1= Smooth-bore weapons with a calibre of less than 20 mm	a,b,c,d, etc.	1 or 2 digits
ML2=Smooth-bore weapons with a calibre of 20 mm or more		
ML3= Ammunition and fuze setting devices		
ML4= Bombs, torpedoes, rockets, missiles, other explosive devices		
ML5= Fire control, and related alerting and warning equipment		
ML6= Ground vehicles and components		
ML7= Chemical or biological toxic agents, ‘riot control agents’, radioactive materials, related equipment		
ML8= ‘Energetic materials’, and related substances		
ML9= Vessels of war		
ML10, ML11, ..., ML22		

Source: European Commission.

³⁷ Common Military List of the European Union adopted by the Council on 24 February 2025, <https://eur-lex.europa.eu/eli/C/2025/1499/oj/eng>

³⁸ User’s Guide to Council Common Position 2008/944/CFSP defining common rules governing the control of exports of military technology and equipment, <https://eur-lex.europa.eu/eli/compos/2008/944/oj/eng>

Table 5. Chemicals included in the Military List, 2008/944/CFSP.

Reference	Chemical name	CAS number	CN code ¹
ML7.b.1.a	(1R)-1,2,2-Trimethylpropyl methylphosphonofluoridoate	89254-46-6	2931.59.90
ML7.b.1.a	(1R)-1-Methylheptyl methylphosphonofluoridoate	24753-12-6	2931.59.90
ML7.b.1.a	(1S)-1,2,2-Trimethylpropyl methylphosphonofluoridoate	89254-45-5	2931.59.90
ML7.b.1.a	(1S)-1-Methylheptyl methylphosphonofluoridoate	22925-96-8	2931.59.90
ML7.b.1.a	(2R)-3,3-dimethylbutan-2-yl (R)-methylphosphonofluoridate	22956-47-4	2931.59.90
ML7.b.1.a	(2R)-3,3-dimethylbutan-2-yl (S)-methylphosphonofluoridate	22956-48-5	2931.59.90
ML7.b.1.a	(2S)-3,3-dimethylbutan-2-yl (R)-methylphosphonofluoridate	24753-15-9	2931.59.90
ML7.b.1.a	(2S)-3,3-dimethylbutan-2-yl methylphosphonofluoridate	24753-16-0	2931.59.90
ML7.b.1.a	1,1-Diethyl-2,2-dimethylpropyl methylphosphonofluoridate	159395-78-5	2931.59.90
ML7.b.1.a	1,1-Diethylpropyl methylphosphonofluoridate	959257-62-6	2931.59.90
ML7.b.1.a	1,1-Dimethylpentyl methylphosphonofluoridate	959014-89-2	2931.59.90
ML7.b.1.a	1,1-Dimethylpropyl methylphosphonofluoridoate	159395-77-4	2931.59.90
ML7.b.1.a	1,2,2-Trimethylpropyl ethylphosphonofluoridoate	97931-20-9	2931.59.90
ML7.b.1.a	1,2,2-Trimethylpropyl isopropylphosphonofluoridoate	952104-41-5	2931.59.90
ML7.b.1.a	1,2,2-Trimethylpropyl propylphosphonofluoridoate	952104-35-7	2931.59.90
ML7.b.1.a	1,2-Dimethylbutyl ethylphosphonofluoridoate	1005258-27-4	2931.59.90
ML7.b.1.a	1,2-Dimethylbutyl isopropylphosphonofluoridoate	1005249-16-0	2931.59.90
ML7.b.1.a	1,2-Dimethylbutyl methylphosphonofluoridoate	1005239-89-3	2931.59.90
ML7.b.1.a	1,2-Dimethylpropyl methylphosphonofluoridoate	6154-51-4	2931.59.90
ML7.b.1.a	1,3,3-Trimethylbutyl methylphosphonofluoridoate	30593-65-8	2931.59.90
ML7.b.1.a	1,3-Dimethylbutyl ethylphosphonofluoridoate	345260-86-8	2931.59.90
ML7.b.1.a	1,3-Dimethylbutyl isopropylphosphonofluoridoate	345260-87-9	2931.59.90
ML7.b.1.a	1,3-Dimethylbutyl methylphosphonofluoridoate	352-53-4	2931.59.90
ML7.b.1.a	1,3-Dimethylbutyl propylphosphonofluoridoate	345260-88-0	2931.59.90
ML7.b.1.a	1,4-Dimethylpentyl methylphosphonofluoridoate	199850-62-9	2931.59.90
ML7.b.1.a	1,5-Dimethylhexyl methylphosphonofluoridoate	159395-76-3	2931.59.90
ML7.b.1.a	1-Cyclohexylethyl ethylphosphonofluoridate	1353011-94-5	2931.59.90
ML7.b.1.a	1-Cyclohexylethyl methylphosphonofluoridate	1280106-29-7	2931.59.90

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.a	1-Cyclohexylethyl propylphosphonofluoridate	1280106-32-2	2931.59.90
ML7.b.1.a	1-Ethyl-1-methylpentyl methylphosphonofluoridate	959098-88-5	2931.59.90
ML7.b.1.a	1-Ethyl-1-methylpropyl methylphosphonofluoridate	959083-58-0	2931.59.90
ML7.b.1.a	1-Ethyl-2,2-dimethylpropyl ethylphosphonofluoridoate	345260-76-6	2931.59.90
ML7.b.1.a	1-Ethyl-2,2-dimethylpropyl isopropylphosphonofluoridoate	345260-77-7	2931.59.90
ML7.b.1.a	1-Ethyl-2,2-dimethylpropyl methylphosphonofluoridoate	345260-75-5	2931.59.90
ML7.b.1.a	1-Ethyl-2,2-dimethylpropyl propylphosphonofluoridoate	345260-78-8	2931.59.90
ML7.b.1.a	1-Ethyl-2-methylpentyl ethylphosphonofluoridate	1280106-33-3	2931.59.90
ML7.b.1.a	1-Ethyl-2-methylpentyl methylphosphonofluoridoate	1005240-09-4	2931.59.90
ML7.b.1.a	1-Ethyl-2-methylpentyl propylphosphonofluoridate	1280106-34-4	2931.59.90
ML7.b.1.a	1-Ethyl-2-methylpropyl ethylphosphonofluoridoate	345260-67-5	2931.59.90
ML7.b.1.a	1-Ethyl-2-methylpropyl isopropylphosphonofluoridoate	345260-68-6	2931.59.90
ML7.b.1.a	1-Ethyl-2-methylpropyl methylphosphonofluoridoate	345260-66-4	2931.59.90
ML7.b.1.a	1-Ethyl-2-methylpropyl propylphosphonofluoridoate	345260-69-7	2931.59.90
ML7.b.1.a	1-Ethylbutyl methylphosphonofluoridate	959218-68-9	2931.59.90
ML7.b.1.a	1-Ethylhexyl isopropylphosphonofluoridoate	959088-13-2	2931.59.90
ML7.b.1.a	1-Ethylhexyl methylphosphonofluoridate	1228786-49-9	2931.59.90
ML7.b.1.a	1-Ethylhexyl propylphosphonofluoridoate	959088-14-3	2931.59.90
ML7.b.1.a	1-Ethylpentyl methylphosphonofluoridoate	959098-89-6	2931.59.90
ML7.b.1.a	1-Ethylpropyl ethylphosphonofluoridoate	959086-48-7	2931.59.90
ML7.b.1.a	1-Ethylpropyl methylphosphonofluoridoate	66348-71-8	2931.59.90
ML7.b.1.a	1-Ethylpropyl propylphosphonofluoridoate	959088-15-4	2931.59.90
ML7.b.1.a	1-Isobutyl-3-methylbutyl ethylphosphonofluoridoate	959262-99-8	2931.59.90
ML7.b.1.a	1-Isobutyl-3-methylbutyl methylphosphonofluoridoate	193090-16-3	2931.59.90
ML7.b.1.a	1-Isopropyl-2-methylpropyl ethylphosphonofluoridoate	345260-79-9	2931.59.90
ML7.b.1.a	1-Isopropyl-2-methylpropyl isopropylphosphonofluoridoate	345260-80-2	2931.59.90
ML7.b.1.a	1-Isopropyl-2-methylpropyl methylphosphonofluoridoate	113548-85-9	2931.59.90
ML7.b.1.a	1-Isopropyl-2-methylpropyl propylphosphonofluoridoate	345260-81-3	2931.59.90
ML7.b.1.a	1-Isopropylbutyl ethylphosphonofluoridoate	345260-71-1	2931.59.90

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.a	1-Isopropylbutyl isopropylphosphonofluoridoate	345260-72-2	2931.59.90
ML7.b.1.a	1-Isopropylbutyl methylphosphonofluoridoate	345260-70-0	2931.59.90
ML7.b.1.a	1-Isopropylbutyl propylphosphonofluoridoate	345260-73-3	2931.59.90
ML7.b.1.a	1-Methylbutyl ethylphosphonofluoridoate	333416-09-4	2931.59.90
ML7.b.1.a	1-Methylbutyl isopropylphosphonofluoridoate	333416-37-8	2931.59.90
ML7.b.1.a	1-Methylbutyl methylphosphonofluoridoate	761-93-3	2931.59.90
ML7.b.1.a	1-Methylbutyl propylphosphonofluoridoate	333416-23-2	2931.59.90
ML7.b.1.a	1-Methylheptyl ethylphosphonofluoridoate	468711-98-0	2931.59.90
ML7.b.1.a	1-Methylheptyl isopropylphosphonofluoridoate	468712-09-6	2931.59.90
ML7.b.1.a	1-Methylheptyl methylphosphonofluoridoate	22925-97-9	2931.59.90
ML7.b.1.a	1-Methylheptyl propylphosphonofluoridoate	468712-06-3	2931.59.90
ML7.b.1.a	1-Methylhexyl ethylphosphonofluoridoate	333416-10-7	2931.59.90
ML7.b.1.a	1-Methylhexyl isopropylphosphonofluoridoate	333416-38-9	2931.59.90
ML7.b.1.a	1-Methylhexyl methylphosphonofluoridoate	674-95-3	2931.59.90
ML7.b.1.a	1-Methylhexyl propylphosphonofluoridoate	333416-24-3	2931.59.90
ML7.b.1.a	1-Methylnonyl ethylphosphonofluoridoate	1254104-37-4	2931.59.90
ML7.b.1.a	1-Methylnonyl isopropylphosphonofluoridoate	1280106-25-3	2931.59.90
ML7.b.1.a	1-Methylnonyl methylphosphonofluoridoate	211192-71-1	2931.59.90
ML7.b.1.a	1-Methyloctyl ethylphosphonofluoridoate	333416-11-8	2931.59.90
ML7.b.1.a	1-Methyloctyl isopropylphosphonofluoridoate	333416-39-0	2931.59.90
ML7.b.1.a	1-Methyloctyl methylphosphonofluoridoate	211192-72-2	2931.59.90
ML7.b.1.a	1-Methyloctyl propylphosphonofluoridoate	333416-25-4	2931.59.90
ML7.b.1.a	1-Methylpentyl methylphosphonofluoridoate	13172-12-8	2931.59.90
ML7.b.1.a	1-Propylheptyl ethylphosphonofluoridoate	959217-15-3	2931.59.90
ML7.b.1.a	1-Propylheptyl methylphosphonofluoridoate	959098-86-3	2931.59.90
ML7.b.1.a	2,2-Dimethylpropyl ethylphosphonofluoridoate	959234-06-1	2931.59.90
ML7.b.1.a	2,2-Dimethylpropyl isopropylphosphonofluoridoate	864463-26-3	2931.59.90
ML7.b.1.a	2,2-Dimethylpropyl methylphosphonofluoridoate	372-62-3	2931.59.90
ML7.b.1.a	2,2-Dimethylpropyl propylphosphonofluoridoate	959092-42-3	2931.59.90

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.a	2,3-Dimethylbutyl methylphosphonofluoridoate	83563-66-0	2931.59.90
ML7.b.1.a	2,3-Dimethylcyclohexyl propylphosphonofluoridoate	1280106-35-5	2931.59.90
ML7.b.1.a	2,4,4-Trimethylpentyl ethylphosphonofluoridoate	333416-13-0	2931.59.90
ML7.b.1.a	2,4,4-Trimethylpentyl isopropylphosphonofluoridoate	333416-43-6	2931.59.90
ML7.b.1.a	2,4,4-Trimethylpentyl methylphosphonofluoridoate	333416-06-1	2931.59.90
ML7.b.1.a	2,4,4-Trimethylpentyl propylphosphonofluoridoate	333416-28-7	2931.59.90
ML7.b.1.a	2,6-Dimethylcyclohexyl methylphosphonofluoridoate	1005276-38-9	2931.59.90
ML7.b.1.a	2-Cyclohexylethyl ethylphosphonofluoridoate	959093-03-9	2931.59.90
ML7.b.1.a	2-Cyclohexylethyl methylphosphonofluoridoate	959040-72-3	2931.59.90
ML7.b.1.a	2-Cyclohexylethyl propylphosphonofluoridoate	959004-37-6	2931.59.90
ML7.b.1.a	2-Ethylbutyl methylphosphonofluoridoate	126204-48-6	2931.59.90
ML7.b.1.a	2-Ethylcyclohexyl methylphosphonofluoridoate	1005257-56-6	2931.59.90
ML7.b.1.a	2-Ethylhexyl ethylphosphonofluoridoate	468711-97-9	2931.59.90
ML7.b.1.a	2-Ethylhexyl isopropylphosphonofluoridoate	460091-27-4	2931.59.90
ML7.b.1.a	2-Ethylhexyl methylphosphonofluoridoate	458-71-9	2931.59.90
ML7.b.1.a	2-Ethylhexyl propylphosphonofluoridoate	952104-36-8	2931.59.90
ML7.b.1.a	2-Isopropyl-5-methylcyclohexyl ethylphosphonofluoridoate	1353011-93-4	2931.59.90
ML7.b.1.a	2-Isopropyl-5-methylcyclohexyl isopropylphosphonofluoridoate	1262583-00-5	2931.59.90
ML7.b.1.a	2-Isopropyl-5-methylcyclohexyl methylphosphonofluoridoate	1262582-99-9	2931.59.90
ML7.b.1.a	2-Methylbutyl ethylphosphonofluoridoate	468711-94-6	2931.59.90
ML7.b.1.a	2-Methylbutyl isopropylphosphonofluoridoate	952104-39-1	2931.59.90
ML7.b.1.a	2-Methylbutyl methylphosphonofluoridoate	468711-90-2	2931.59.90
ML7.b.1.a	2-Methylbutyl propylphosphonofluoridoate	468712-02-9	2931.59.90
ML7.b.1.a	2-Methylcyclohexyl ethylphosphonofluoridoate	1353011-76-3	2931.59.90
ML7.b.1.a	2-Methylcyclohexyl methylphosphonofluoridoate	85473-32-1	2931.59.90
ML7.b.1.a	2-Methylcyclopentyl ethylphosphonofluoridoate	1005164-70-4	2931.59.90
ML7.b.1.a	2-Methylcyclopentyl isopropylphosphonofluoridoate	1005176-59-9	2931.59.90
ML7.b.1.a	2-Methylcyclopentyl propylphosphonofluoridoate	1005176-60-2	2931.59.90

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.a	2-Methyloctyl methylphosphonofluoridate	1228786-50-2	2931.59.90
ML7.b.1.a	2-Methylpentyl ethylphosphonofluoridoate	333416-12-9	2931.59.90
ML7.b.1.a	2-Methylpentyl isopropylphosphonofluoridoate	333416-41-4	2931.59.90
ML7.b.1.a	2-Methylpentyl methylphosphonofluoridoate	333416-05-0	2931.59.90
ML7.b.1.a	2-Methylpentyl propylphosphonofluoridoate	333416-27-6	2931.59.90
ML7.b.1.a	2-Propylpentyl methylphosphonofluoridoate	959089-00-0	2931.59.90
ML7.b.1.a	2-tert-Butylcyclohexyl ethylphosphonofluoridoate	1005254-23-8	2931.59.90
ML7.b.1.a	2-tert-Butylcyclohexyl isopropylphosphonofluoridoate	1005145-75-4	2931.59.90
ML7.b.1.a	2-tert-Butylcyclohexyl methylphosphonofluoridoate	1005247-52-8	2931.59.90
ML7.b.1.a	2-tert-Butylcyclohexyl propylphosphonofluoridoate	1005176-90-8	2931.59.90
ML7.b.1.a	3,3,5,5-Tetramethylcyclohexyl ethylphosphonofluoridate	333416-68-5	2931.59.90
ML7.b.1.a	3,3,5,5-Tetramethylcyclohexyl isopropylphosphonofluoridoate	333416-76-5	2931.59.90
ML7.b.1.a	3,3,5,5-Tetramethylcyclohexyl methylphosphonofluoridate	333416-63-0	2931.59.90
ML7.b.1.a	3,3,5,5-Tetramethylcyclohexyl propylphosphonofluoridoate	333416-72-1	2931.59.90
ML7.b.1.a	3,3-Dimethylbutyl methylphosphonofluoridoate	660-21-9	2931.59.90
ML7.b.1.a	3,3-Dimethylbutyl propylphosphonofluoridoate	959004-32-1	2931.59.90
ML7.b.1.a	3,5,5-Trimethylhexyl ethylphosphonofluoridoate	959027-88-4	2931.59.90
ML7.b.1.a	3,5,5-Trimethylhexyl methylphosphonofluoridoate	959304-14-4	2931.59.90
ML7.b.1.a	3,5-Dimethylcyclohexyl ethylphosphonofluoridate	1353011-80-9	2931.59.90
ML7.b.1.a	3,5-Dimethylcyclohexyl methylphosphonofluoridoate	1005284-61-6	2931.59.90
ML7.b.1.a	3,7-Dimethyloctyl ethylphosphonofluoridoate	345260-83-5	2931.59.90
ML7.b.1.a	3,7-Dimethyloctyl isopropylphosphonofluoridoate	345260-84-6	2931.59.90
ML7.b.1.a	3,7-Dimethyloctyl methylphosphonofluoridoate	345260-82-4	2931.59.90
ML7.b.1.a	3,7-Dimethyloctyl propylphosphonofluoridoate	345260-85-7	2931.59.90
ML7.b.1.a	3-Cyclohexylpropyl ethylphosphonofluoridate	1353011-91-2	2931.59.90
ML7.b.1.a	3-Cyclohexylpropyl methylphosphonofluoridoate	211192-73-3	2931.59.90
ML7.b.1.a	3-Cyclohexylpropyl propylphosphonofluoridate	1280106-26-4	2931.59.90
ML7.b.1.a	3-Cyclopentylpropyl ethylphosphonofluoridate	1353011-87-6	2931.59.90
ML7.b.1.a	3-Methylbutyl ethylphosphonofluoridoate	468711-95-7	2931.59.90

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.a	3-Methylbutyl isopropylphosphonofluoridoate	952104-40-4	2931.59.90
ML7.b.1.a	3-Methylbutyl methylphosphonofluoridoate	22107-46-6	2931.59.90
ML7.b.1.a	3-Methylbutyl propylphosphonofluoridoate	468712-03-0	2931.59.90
ML7.b.1.a	3-Methylcyclohexyl ethylphosphonofluoridoate	333416-64-1	2931.59.90
ML7.b.1.a	3-Methylcyclohexyl isopropylphosphonofluoridoate	333416-73-2	2931.59.90
ML7.b.1.a	3-Methylcyclohexyl methylphosphonofluoridoate	113548-86-0	2931.59.90
ML7.b.1.a	3-Methylcyclohexyl propylphosphonofluoridoate	333416-69-6	2931.59.90
ML7.b.1.a	3-Methylcyclopentyl ethylphosphonofluoridoate	1280106-36-6	2931.59.90
ML7.b.1.a	3-Methylpentyl ethylphosphonofluoridoate	959263-01-5	2931.59.90
ML7.b.1.a	3-Methylpentyl methylphosphonofluoridoate	199850-60-7	2931.59.90
ML7.b.1.a	4-Ethylcyclohexyl ethylphosphonofluoridoate	333416-65-2	2931.59.90
ML7.b.1.a	4-Ethylcyclohexyl isopropylphosphonofluoridoate	333416-74-3	2931.59.90
ML7.b.1.a	4-Ethylcyclohexyl methylphosphonofluoridoate	333416-60-7	2931.59.90
ML7.b.1.a	4-Ethylcyclohexyl propylphosphonofluoridoate	333416-70-9	2931.59.90
ML7.b.1.a	4-Methylcyclohexyl ethylphosphonofluoridoate	468711-96-8	2931.59.90
ML7.b.1.a	4-Methylcyclohexyl isopropylphosphonofluoridoate	468712-08-5	2931.59.90
ML7.b.1.a	4-Methylcyclohexyl methylphosphonofluoridoate	113548-87-1	2931.59.90
ML7.b.1.a	4-Methylpentyl ethylphosphonofluoridoate	959276-46-1	2931.59.90
ML7.b.1.a	4-Methylpentyl methylphosphonofluoridoate	959010-20-9	2931.59.90
ML7.b.1.a	4-tert-Butylcyclohexyl ethylphosphonofluoridoate	959217-22-2	2931.59.90
ML7.b.1.a	4-tert-Butylcyclohexyl methylphosphonofluoridoate	959245-06-8	2931.59.90
ML7.b.1.a	4-tert-Butylcyclohexyl propylphosphonofluoridoate	959004-03-6	2931.59.90
ML7.b.1.a	Butyl ethylphosphonofluoridoate	18358-34-4	2931.59.90
ML7.b.1.a	Butyl isopropylphosphonofluoridoate	333416-30-1	2931.59.90
ML7.b.1.a	Butyl methylphosphonofluoridoate	352-63-6	2931.59.90
ML7.b.1.a	Butyl propylphosphonofluoridoate	333416-16-3	2931.59.90
ML7.b.1.a	Cyclobutyl ethylphosphonofluoridoate	345239-03-4	2931.59.90
ML7.b.1.a	Cyclobutyl isopropylphosphonofluoridoate	345239-04-5	2931.59.90
ML7.b.1.a	Cyclobutyl methylphosphonofluoridoate	14618-04-3	2931.59.90

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.a	Cyclobutyl propylphosphonofluoridate	345239-05-6	2931.59.90
ML7.b.1.a	Cyclobutyl propylphosphonofluoridoate	345239-05-6	2931.59.90
ML7.b.1.a	Cycloheptyl ethylphosphonofluoridoate	345239-09-0	2931.59.90
ML7.b.1.a	Cycloheptyl isopropylphosphonofluoridoate	345239-10-3	2931.59.90
ML7.b.1.a	Cycloheptyl methylphosphonofluoridoate	7284-83-5	2931.59.90
ML7.b.1.a	Cycloheptyl propylphosphonofluoridoate	345239-11-4	2931.59.90
ML7.b.1.a	Cyclohexyl ethylphosphonofluoridoate	7284-84-6	2931.59.90
ML7.b.1.a	Cyclohexyl isopropylphosphonofluoridoate	333416-55-0	2931.59.90
ML7.b.1.a	Cyclohexyl methylphosphonofluoridoate	329-99-7	2931.59.90
ML7.b.1.a	Cyclohexyl propylphosphonofluoridoate	28364-21-8	2931.59.90
ML7.b.1.a	Cyclohexylmethyl ethylphosphonofluoridoate	959093-05-1	2931.59.90
ML7.b.1.a	Cyclohexylmethyl isopropylphosphonofluoridoate	959004-34-3	2931.59.90
ML7.b.1.a	Cyclohexylmethyl methylphosphonofluoridoate	959019-47-7	2931.59.90
ML7.b.1.a	Cyclohexylmethyl propylphosphonofluoridoate	959025-93-5	2931.59.90
ML7.b.1.a	Cyclooctyl ethylphosphonofluoridoate	345239-12-5	2931.59.90
ML7.b.1.a	Cyclooctyl isopropylphosphonofluoridoate	345239-13-6	2931.59.90
ML7.b.1.a	Cyclooctyl methylphosphonofluoridoate	14719-38-1	2931.59.90
ML7.b.1.a	Cyclooctyl propylphosphonofluoridoate	345239-14-7	2931.59.90
ML7.b.1.a	Cyclopentyl ethylphosphonofluoridoate	345239-06-7	2931.59.90
ML7.b.1.a	Cyclopentyl isopropylphosphonofluoridoate	345239-07-8	2931.59.90
ML7.b.1.a	Cyclopentyl methylphosphonofluoridoate	7284-82-4	2931.59.90
ML7.b.1.a	Cyclopentyl propylphosphonofluoridoate	345239-08-9	2931.59.90
ML7.b.1.a	Cyclopentylmethyl ethylphosphonofluoridate	1353011-72-9	2931.59.90
ML7.b.1.a	Decyl ethylphosphonofluoridoate	333416-08-3	2931.59.90
ML7.b.1.a	Decyl isopropylphosphonofluoridoate	333416-36-7	2931.59.90
ML7.b.1.a	Decyl methylphosphonofluoridoate	193090-25-4	2931.59.90
ML7.b.1.a	Decyl propylphosphonofluoridoate	333416-22-1	2931.59.90
ML7.b.1.a	Ethyl ethylphosphonofluoridoate	650-20-4	2931.59.90
ML7.b.1.a	Ethyl isopropylphosphonofluoridoate	1426-08-0	2931.59.90

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.a	Ethyl methylphosphonofluoridoate	673-97-2	2931.59.90
ML7.b.1.a	Ethyl propylphosphonofluoridoate	333416-15-2	2931.59.90
ML7.b.1.a	Heptyl ethylphosphonofluoridoate	162085-85-0	2931.59.90
ML7.b.1.a	Heptyl isopropylphosphonofluoridoate	333416-33-4	2931.59.90
ML7.b.1.a	Heptyl methylphosphonofluoridoate	62085-82-7	2931.59.90
ML7.b.1.a	Heptyl methylphosphonofluoridoate	162085-82-7	2931.59.90
ML7.b.1.a	Heptyl propylphosphonofluoridoate	333416-19-6	2931.59.90
ML7.b.1.a	Hexyl ethylphosphonofluoridoate	135445-19-1	2931.59.90
ML7.b.1.a	Hexyl isopropylphosphonofluoridoate	333416-32-3	2931.59.90
ML7.b.1.a	Hexyl methylphosphonofluoridoate	113548-89-3	2931.59.90
ML7.b.1.a	Hexyl propylphosphonofluoridoate	333416-18-5	2931.59.90
ML7.b.1.a	Isobutyl ethylphosphonofluoridoate	2261-83-8	2931.59.90
ML7.b.1.a	Isobutyl isopropylphosphonofluoridoate	333416-40-3	2931.59.90
ML7.b.1.a	Isobutyl methylphosphonofluoridoate	2053-81-8	2931.59.90
ML7.b.1.a	Isobutyl propylphosphonofluoridoate	333416-26-5	2931.59.90
ML7.b.1.a	Isopropyl ethylphosphonofluoridoate	1189-87-3	2931.59.90
ML7.b.1.a	Isopropyl isopropylphosphonofluoridoate	665-33-8	2931.59.90
ML7.b.1.a	Isopropyl propylphosphonofluoridoate	18358-37-7	2931.59.90
ML7.b.1.a	Methyl ethylphosphonofluoridoate	665-03-2	2931.59.90
ML7.b.1.a	Methyl isopropylphosphonofluoridoate	648-59-9	2931.59.90
ML7.b.1.a	Methyl methylphosphonofluoridoate	353-88-8	2931.59.90
ML7.b.1.a	Methyl propylphosphonofluoridoate	333416-14-1	2931.59.90
ML7.b.1.a	Nonyl ethylphosphonofluoridoate	171741-07-4	2931.59.90
ML7.b.1.a	Nonyl isopropylphosphonofluoridoate	333416-35-6	2931.59.90
ML7.b.1.a	Nonyl methylphosphonofluoridoate	211192-74-4	2931.59.90
ML7.b.1.a	Nonyl propylphosphonofluoridoate	333416-21-0	2931.59.90
ML7.b.1.a	Octyl ethylphosphonofluoridoate	333416-07-2	2931.59.90
ML7.b.1.a	Octyl isopropylphosphonofluoridoate	333416-34-5	2931.59.90
ML7.b.1.a	Octyl methylphosphonofluoridoate	144313-52-0	2931.59.90

Reference	Chemical name	CAS number	CN code ¹
ML7.b.1.a	Octyl propylphosphonofluoridoate	333416-20-9	2931.59.90
ML7.b.1.a	O-Isopropyl methylphosphonofluoridate; Sarin (GB)	107-44-8	2931.59.90
ML7.b.1.a	O-Pinacolyl methylphosphonofluoridate; Soman (GD)	96-64-0	2931.59.90
ML7.b.1.a	Pentyl ethylphosphonofluoridoate	162085-84-9	2931.59.90
ML7.b.1.a	Pentyl isopropylphosphonofluoridoate	333416-31-2	2931.59.90
ML7.b.1.a	Pentyl methylphosphonofluoridoate	13454-59-6	2931.59.90
ML7.b.1.a	Pentyl propylphosphonofluoridoate	333416-17-4	2931.59.90
ML7.b.1.a	Propyl ethylphosphonofluoridoate	2992-95-2	2931.59.90
ML7.b.1.a	Propyl isopropylphosphonofluoridoate	333416-29-8	2931.59.90
ML7.b.1.a	Propyl methylphosphonofluoridoate	763-14-4	2931.59.90
ML7.b.1.a	Propyl propylphosphonofluoridoate	18358-36-6	2931.59.90
ML7.b.1.a	sec-Butyl ethylphosphonofluoridoate	162085-83-8	2931.59.90
ML7.b.1.a	sec-Butyl isopropylphosphonofluoridoate	468712-07-4	2931.59.90
ML7.b.1.a	sec-Butyl methylphosphonofluoridoate	352-52-3	2931.59.90
ML7.b.1.a	sec-Butyl propylphosphonofluoridoate	468712-01-8	2931.59.90
ML7.b.1.a	tert-Butyl methylphosphonofluoridoate	13273-12-6	2931.59.90
ML7.b.1.b	1,1,2-Trimethylpropyl N,N-diethylphosphoramidocyanidate	1256572-25-4	2931.49.80
ML7.b.1.b	1,1,2-Trimethylpropyl N,N-diisopropylphosphoramidocyanidate	1256634-75-9	2931.49.80
ML7.b.1.b	1,1,2-Trimethylpropyl N,N-dimethylphosphoramidocyanidate	1256634-77-1	2931.49.80
ML7.b.1.b	1,1,2-Trimethylpropyl N,Ndipropylphosphoramidocyanidate	1253782-51-2	2931.49.80
ML7.b.1.b	1,1,2-Trimethylpropyl N-propyl-N-isopropylphosphoramidocyanidate	1256634-76-0	2931.49.80
ML7.b.1.b	1,2-Dimethylpropyl N,N-diisopropylphosphoramidocyanidate	1256634-86-2	2931.49.80
ML7.b.1.b	1,3-Dimethylbutyl N,N-diisopropylphosphoramidocyanidate	1256572-10-7	2931.49.80
ML7.b.1.b	1-Cyclohexylethyl N,N-diisopropylphosphoramidocyanidate	1256572-20-9	2931.49.80
ML7.b.1.b	1-Ethylbutyl N,N-diisopropylphosphoramidocyanidate	1256634-91-9	2931.49.80
ML7.b.1.b	1-Ethylhexyl N,N-diethylphosphoramidocyanidate	1256572-21-0	2931.49.80
ML7.b.1.b	1-Ethylhexyl N,N-diisopropylphosphoramidocyanidate	1256572-22-1	2931.49.80
ML7.b.1.b	1-Ethylhexyl N,N-dimethylphosphoramidocyanidate	1253782-49-8	2931.49.80

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.b	1-Ethylhexyl N,N-dipropylphosphoramidocyanidate	1256572-24-3	2931.49.80
ML7.b.1.b	1-Ethylhexyl N-isopropyl-N-propylphosphoramidocyanidate	1256572-23-2	2931.49.80
ML7.b.1.b	1-Ethylpentyl N,N-diisopropylphosphoramidocyanidate	1256634-84-0	2931.49.80
ML7.b.1.b	1-Isopropyl-2-methylpentyl N-isopropyl-N-propylphosphoramidocyanidate	1311200-15-3	2931.49.80
ML7.b.1.b	1-Isopropyl-2-methylpropyl N,N-diethylphosphoramidocyanidate	1256634-87-3	2931.49.80
ML7.b.1.b	1-Isopropyl-2-methylpropyl N,N-diisopropylphosphoramidocyanidate	1256634-88-4	2931.49.80
ML7.b.1.b	1-Isopropyl-2-methylpropyl N,N-dimethylphosphoramidocyanidate	1256634-89-5	2931.49.80
ML7.b.1.b	1-Isopropyl-2-methylpropyl N,N-dipropylphosphoramidocyanidate	1256634-90-8	2931.49.80
ML7.b.1.b	1-Isopropyl-2-methylpropyl N-isopropyl-N-propylphosphoramidocyanidate	1252610-36-8	2931.49.80
ML7.b.1.b	1-Methylbutyl N,N-diisopropylphosphoramidocyanidate	1311200-13-1	2931.49.80
ML7.b.1.b	1-Methylheptyl N,N-diisopropylphosphoramidocyanidate	1254103-95-1	2931.49.80
ML7.b.1.b	1-Methylhexyl N,N-dimethylphosphoramidocyanidate	1311200-08-4	2931.49.80
ML7.b.1.b	1-Methylhexyl N-methyl-N-propylphosphoramidocyanidate	1311200-11-9	2931.49.80
ML7.b.1.b	1-Methylnonyl N-methyl-N-propylphosphoramidocyanidate	1311200-10-8	2931.49.80
ML7.b.1.b	1-Methylpentyl N,N-diethylphosphoramidocyanidate	1252610-35-7	2931.49.80
ML7.b.1.b	1-Methylpentyl N,N-dimethylphosphoramidocyanidate	1311200-07-3	2931.49.80
ML7.b.1.b	2,2-Dimethylpropyl N,N-diisopropylphosphoramidocyanidate	1253782-83-0	2931.49.80
ML7.b.1.b	2,2-Dimethylpropyl N-isopropyl-N-propylphosphoramidocyanidate	1253782-84-1	2931.49.80
ML7.b.1.b	2,6-Dimethylcyclohexyl N,N-diethylphosphoramidocyanidate	1256634-80-6	2931.49.80
ML7.b.1.b	2,6-Dimethylcyclohexyl N,N-diisopropylphosphoramidocyanidate	1256634-81-7	2931.49.80
ML7.b.1.b	2,6-Dimethylcyclohexyl N,N-dimethylphosphoramidocyanidate	1256634-83-9	2931.49.80
ML7.b.1.b	2,6-Dimethylcyclohexyl N,N-dipropylphosphoramidocyanidate	1252610-38-0	2931.49.80
ML7.b.1.b	2,6-Dimethylcyclohexyl N-isopropyl-N-propylphosphoramidocyanidate	1256634-82-8	2931.49.80
ML7.b.1.b	2-Cyclohexylethyl diisopropylphosphoramidocyanidoate	959231-14-2	2931.49.80

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.b	2-Cyclohexylethyl dipropylphosphoramidocyanidoate	959304-98-4	2931.49.80
ML7.b.1.b	2-Ethylhexyl N,N-dimethylphosphoramidocyanidate	1311200-06-2	2931.49.80
ML7.b.1.b	2-Methylcyclohexyl N,N-diisopropylphosphoramidocyanidate	1256634-85-1	2931.49.80
ML7.b.1.b	2-Methylpentyl N-ethyl-N-methylphosphoramidocyanidate	1311200-09-5	2931.49.80
ML7.b.1.b	Butyl diethylphosphoramidocyanidoate	870124-31-5	2931.49.80
ML7.b.1.b	Butyl dimethylphosphoramidocyanidoate	162085-87-2	2931.49.80
ML7.b.1.b	Butyl dipropylphosphoramidocyanidate	870124-35-9	2931.49.80
ML7.b.1.b	Butyl ethylmethylphosphoramidocyanidoate	870124-03-1	2931.49.80
ML7.b.1.b	Butyl isopropylmethylphosphoramidocyanidoate	870124-14-4	2931.49.80
ML7.b.1.b	Butyl isopropylpropylphosphoramidocyanidoate	870124-28-0	2931.49.80
ML7.b.1.b	Butyl N,N-diisopropylphosphoramidocyanidate	1253782-71-6	2931.49.80
ML7.b.1.b	Butyl N-ethyl-N-isopropylphosphoramidocyanidate	1256571-96-6	2931.49.80
ML7.b.1.b	Butyl N-ethyl-N-propylphosphoramidocyanidate	1256571-97-7	2931.49.80
ML7.b.1.b	Butyl N-methyl-N-propylphosphoramidocyanidate	1253782-74-9	2931.49.80
ML7.b.1.b	Cycloheptyl diisopropylphosphoramidocyanidoate	959299-72-0	2931.49.80
ML7.b.1.b	Cycloheptyl dipropylphosphoramidocyanidoate	959220-92-9	2931.49.80
ML7.b.1.b	Cycloheptyl N,N-diethylphosphoramidocyanidate	1256634-78-2	2931.49.80
ML7.b.1.b	Cycloheptyl N,N-dimethylphosphoramidocyanidate	1256634-79-3	2931.49.80
ML7.b.1.b	Cyclohexyl N,N-diethylphosphoramidocyanidate	1256572-11-8	2931.49.80
ML7.b.1.b	Cyclohexyl N,N-dimethylphosphoramidocyanidate	1256572-12-9	2931.49.80
ML7.b.1.b	Cyclohexyl N,N-dipropylphosphoramidocyanidate	1256572-13-0	2931.49.80
ML7.b.1.b	Cyclohexyl N-isopropyl-N-propylphosphoramidocyanidate	1253782-35-2	2931.49.80
ML7.b.1.b	Cyclohexylmethyl dipropylphosphoramidocyanidoate	959285-51-9	2931.49.80
ML7.b.1.b	Cyclooctyl diisopropylphosphoramidocyanidoate	959299-70-8	2931.49.80
ML7.b.1.b	Cyclooctyl dipropylphosphoramidocyanidoate	959220-91-8	2931.49.80
ML7.b.1.b	Cyclooctyl N,N-dimethylphosphoramidocyanidate	1256634-94-2	2931.49.80
ML7.b.1.b	Cyclopentyl dipropylphosphoramidocyanidoate	959305-00-1	2931.49.80
ML7.b.1.b	Decyl N,N-diisopropylphosphoramidocyanidate	1256572-18-5	2931.49.80
ML7.b.1.b	Decyl N-isopropyl-N-propylphosphoramidocyanidate	1256572-19-6	2931.49.80

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.b	Ethyl diethylphosphoramidocyanidoate	63815-60-1	2931.49.80
ML7.b.1.b	Ethyl diisopropylphosphoramidocyanidoate	870124-37-1	2931.49.80
ML7.b.1.b	Ethyl dipropylphosphoramidocyanidoate	870124-33-7	2931.49.80
ML7.b.1.b	Ethyl ethylisopropylphosphoramidocyanidoate	870124-22-4	2931.49.80
ML7.b.1.b	Ethyl ethylmethylphosphoramidocyanidoate	870124-00-8	2931.49.80
ML7.b.1.b	Ethyl ethylpropylphosphoramidocyanidoate	870124-17-7	2931.49.80
ML7.b.1.b	Ethyl isopropylmethylphosphoramidocyanidoate	870124-11-1	2931.49.80
ML7.b.1.b	Ethyl isopropylpropylphosphoramidocyanidoate	870124-26-8	2931.49.80
ML7.b.1.b	Ethyl methylpropylphosphoramidocyanidoate	870124-07-5	2931.49.80
ML7.b.1.b	Ethyl N,N-Dimethylphosphoramidocyanidate; Tabun (GA)	77-81-6	2931.49.80
ML7.b.1.b	Ethyl N-isopropyl-N-propylphosphoramidocyanidate	870124-26-8	2931.49.80
ML7.b.1.b	Heptyl diisopropylphosphoramidocyanidoate	959231-41-5	2931.49.80
ML7.b.1.b	Heptyl dimethylphosphoramidocyanidoate	162085-91-8	2931.49.80
ML7.b.1.b	Heptyl dipropylphosphoramidocyanidoate	959304-97-3	2931.49.80
ML7.b.1.b	Heptyl N,N-diethylphosphoramidocyanidate	870124-32-6	2931.49.80
ML7.b.1.b	Hexyl diisopropylphosphoramidocyanidoate	870124-39-3	2931.49.80
ML7.b.1.b	Hexyl dimethylphosphoramidocyanidoate	162085-90-7	2931.49.80
ML7.b.1.b	Hexyl methylpropylphosphoramidocyanidoate	870124-10-0	2931.49.80
ML7.b.1.b	Hexyl N,N-dipropylphosphoramidocyanidate	870124-36-0	2931.49.80
ML7.b.1.b	Hexyl N-ethyl-N-isopropylphosphoramidocyanidate	870124-25-7	2931.49.80
ML7.b.1.b	Hexyl N-ethyl-N-methylphosphoramidocyanidate	870124-06-4	2931.49.80
ML7.b.1.b	Hexyl N-ethyl-N-propylphosphoramidocyanidate	870124-21-3	2931.49.80
ML7.b.1.b	Isobutyl diisopropylphosphoramidocyanidoate	870124-38-2	2931.49.80
ML7.b.1.b	Isobutyl dimethylphosphoramidocyanidoate	162085-88-3	2931.49.80
ML7.b.1.b	Isobutyl ethylisopropylphosphoramidocyanidoate	870124-23-5	2931.49.80
ML7.b.1.b	Isobutyl ethylmethylphosphoramidocyanidoate	870124-04-2	2931.49.80
ML7.b.1.b	Isobutyl ethylpropylphosphoramidocyanidoate	870124-19-9	2931.49.80
ML7.b.1.b	Isobutyl N,N-diethylphosphoramidocyanidate	1253782-85-2	2931.49.80
ML7.b.1.b	Isobutyl N,N-dipropylphosphoramidocyanidate	1281955-89-2	2931.49.80

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.b	Isobutyl N-isopropyl-N-methylphosphoramidocyanidate	1281955-87-0	2931.49.80
ML7.b.1.b	Isobutyl N-isopropyl-N-propylphosphoramidocyanidate	1281955-88-1	2931.49.80
ML7.b.1.b	Isobutyl N-methyl-N-propylphosphoramidocyanidate	1253782-86-3	2931.49.80
ML7.b.1.b	Isopropyl diethylphosphoramidocyanidoate	870124-30-4	2931.49.80
ML7.b.1.b	Isopropyl dimethylphosphoramidocyanidoate	63815-55-4	2931.49.80
ML7.b.1.b	Isopropyl ethylmethylphosphoramidocyanidoate	870124-02-0	2931.49.80
ML7.b.1.b	Isopropyl ethylpropylphosphoramidocyanidoate	870124-18-8	2931.49.80
ML7.b.1.b	Isopropyl isopropylmethylphosphoramidocyanidoate	870124-12-2	2931.49.80
ML7.b.1.b	Isopropyl methylpropylphosphoramidocyanidoate	870124-08-6	2931.49.80
ML7.b.1.b	Isopropyl N,N-diisopropylphosphoramidocyanidate	1252610-37-9	2931.49.80
ML7.b.1.b	Isopropyl N,N-dipropylphosphoramidocyanidate	1256634-93-1	2931.49.80
ML7.b.1.b	Isopropyl N-ethyl-N-isopropylphosphoramidocyanidate	1253782-69-2	2931.49.80
ML7.b.1.b	Isopropyl N-isopropyl-N-propylphosphoramidocyanidate	1256634-92-0	2931.49.80
ML7.b.1.b	Methyl diethylphosphoramidocyanidoate	870124-43-9	2931.49.80
ML7.b.1.b	Methyl diisopropylphosphoramidocyanidoate	870124-47-3	2931.49.80
ML7.b.1.b	Methyl dimethylphosphoramidocyanidoate	63815-56-5	2931.49.80
ML7.b.1.b	Methyl dipropylphosphoramidocyanidoate	870124-46-2	2931.49.80
ML7.b.1.b	Methyl ethylmethylphosphoramidocyanidoate	870124-40-6	2931.49.80
ML7.b.1.b	Methyl ethylpropylphosphoramidocyanidoate	870124-45-1	2931.49.80
ML7.b.1.b	Methyl isopropylmethylphosphoramidocyanidoate	870124-42-8	2931.49.80
ML7.b.1.b	Methyl isopropylpropylphosphoramidocyanidoate	870124-48-4	2931.49.80
ML7.b.1.b	Methyl methylpropylphosphoramidocyanidoate	870124-41-7	2931.49.80
ML7.b.1.b	Methyl N-ethyl-N-isopropylphosphoramidocyanidate	870124-44-0	2931.49.80
ML7.b.1.b	Nonyl N-isopropyl-N-methylphosphoramidocyanidate	1311200-12-0	2931.49.80
ML7.b.1.b	Octyl N,N-diethylphosphoramidocyanidate	1256572-14-1	2931.49.80
ML7.b.1.b	Octyl N,N-diisopropylphosphoramidocyanidate	1256572-15-2	2931.49.80
ML7.b.1.b	Octyl N,N-dimethylphosphoramidocyanidate	1253782-45-4	2931.49.80
ML7.b.1.b	Octyl N,N-dipropylphosphoramidocyanidate	1256572-17-4	2931.49.80
ML7.b.1.b	Octyl N-isopropyl-N-propylphosphoramidocyanidate	1256572-16-3	2931.49.80

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.b	Pentyl diisopropylphosphoramidocyanidate	959231-39-1	2931.49.80
ML7.b.1.b	Pentyl dimethylphosphoramidocyanidoate	148461-87-4	2931.49.80
ML7.b.1.b	Pentyl dipropylphosphoramidocyanidate	959014-75-6	2931.49.80
ML7.b.1.b	Pentyl N-ethyl-N-isopropylphosphoramidocyanidate	870124-24-6	2931.49.80
ML7.b.1.b	Pentyl N-ethyl-N-methylphosphoramidocyanidate	870124-05-3	2931.49.80
ML7.b.1.b	Pentyl N-ethyl-N-propylphosphoramidocyanidate	870124-20-2	2931.49.80
ML7.b.1.b	Pentyl N-isopropyl-N-methylphosphoramidocyanidate	870124-15-5	2931.49.80
ML7.b.1.b	Pinacolyl N,N-dipropylphosphoramidocyanidate	1311200-14-2	2931.49.80
ML7.b.1.b	Propyl diisopropylphosphoramidocyanidoate	959231-16-4	2931.49.80
ML7.b.1.b	Propyl dimethylphosphoramidocyanidoate	162085-86-1	2931.49.80
ML7.b.1.b	Propyl dipropylphosphoramidocyanidoate	870124-34-8	2931.49.80
ML7.b.1.b	Propyl ethylmethylphosphoramidocyanidoate	870124-01-9	2931.49.80
ML7.b.1.b	Propyl isopropylmethylphosphoramidocyanidoate	870124-13-3	2931.49.80
ML7.b.1.b	Propyl isopropylpropylphosphoramidocyanidoate	870124-27-9	2931.49.80
ML7.b.1.b	Propyl N,N-diethylphosphoramidocyanidate	1256571-92-2	2931.49.80
ML7.b.1.b	Propyl N-ethyl-N-isopropylphosphoramidocyanidate	1256571-93-3	2931.49.80
ML7.b.1.b	Propyl N-ethyl-N-propylphosphoramidocyanidate	1256571-94-4	2931.49.80
ML7.b.1.b	Propyl N-isopropyl-N-propylphosphoramidocyanidate	870124-27-9	2931.49.80
ML7.b.1.b	Propyl N-methyl-N-propylphosphoramidocyanidate	1256571-95-5	2931.49.80
ML7.b.1.b	sec-Butyl dimethylphosphoramidocyanidoate	162085-89-4	2931.49.80
ML7.b.1.b	sec-Butyl methylpropylphosphoramidocyanidoate	870124-09-7	2931.49.80
ML7.b.1.b	sec-Butyl N,N-diethylphosphoramidocyanidate	1281955-92-7	2931.49.80
ML7.b.1.b	sec-Butyl N,N-diisopropylphosphoramidocyanidate	1281955-95-0	2931.49.80
ML7.b.1.b	sec-Butyl N,N-dipropylphosphoramidocyanidate	1281955-98-3	2931.49.80
ML7.b.1.b	sec-Butyl N-ethyl-N-isopropylphosphoramidocyanidate	1281955-93-8	2931.49.80
ML7.b.1.b	sec-Butyl N-ethyl-N-methylphosphoramidocyanidate	1281955-94-9	2931.49.80
ML7.b.1.b	sec-Butyl N-isopropyl-N-methylphosphoramidocyanidate	1281955-96-1	2931.49.80
ML7.b.1.b	sec-Butyl N-isopropyl-N-propylphosphoramidocyanidate	1281955-97-2	2931.49.80

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.c	(R)-2-[[Isopropoxy(methyl)phosphoryl]thio]-N,N,N-trimethylethanaminium iodide	26348-71-0	2930.90.95
ML7.b.1.c	(R)-Cyclohexyl S-2-dimethylaminoethyl methylphosphonothioate	1220982-69-3	2930.90.95
ML7.b.1.c	(R)-Cyclopentyl S-2-diisopropylaminoethyl methylphosphonothioate	102490-57-3	2930.90.95
ML7.b.1.c	(R)-Ethyl S-2-diethylaminoethyl ethylphosphonothioate	1187548-77-1	2930.90.95
ML7.b.1.c	(R)-Ethyl S-2-diethylaminoethyl methylphosphonothioate	1187548-81-7	2930.90.95
ML7.b.1.c	(R)-O-Ethyl S-[2-(diisopropylamino)ethyl] methylphosphonothioate	65167-63-7	2930.90.95
ML7.b.1.c	(S)-Cyclohexyl S-2-dimethylaminoethyl methylphosphonothioate	1186330-22-2	2930.90.95
ML7.b.1.c	(S)-Cyclopentyl S-2-diisopropylaminoethyl methylphosphonothioate	102490-59-5	2930.90.95
ML7.b.1.c	(S)-Ethyl S-2-diethylaminoethyl ethylphosphonothioate	1187548-79-3	2930.90.95
ML7.b.1.c	(S)-Ethyl S-2-diethylaminoethyl methylphosphonothioate	1187548-82-8	2930.90.95
ML7.b.1.c	(S)-O-Ethyl S-[2-(diisopropylamino)ethyl] methylphosphonothioate	65167-64-8	2930.90.95
ML7.b.1.c	[P(S)]-O-cyclopentyl S-[2-(dimethylamino)ethyl] methylphosphonothioate	22925-95-7	2930.90.95
ML7.b.1.c	1,2,2-Trimethylpropyl S-2-diethylaminoethyl methylphosphonothioate	468712-13-2	2930.90.95
ML7.b.1.c	1,2,2-Trimethylpropyl S-2-diisopropylaminoethyl methylphosphonothioate	198830-38-5	2930.90.95
ML7.b.1.c	1,2-Dimethylbutyl S-2-dimethylaminoethyl ethylphosphonothioate	1253739-43-3	2930.90.95
ML7.b.1.c	1-Ethylpropyl S-2-diisopropylaminoethyl propylphosphonothioate	958997-65-4	2930.90.95
ML7.b.1.c	1-Ethylpropyl S-2-dimethylaminoethyl ethylphosphonothioate	1253739-92-2	2930.90.95
ML7.b.1.c	1-Methylpentyl S-2-dimethylaminoethyl ethylphosphonothioate	1253739-96-6	2930.90.95
ML7.b.1.c	1-Methylpentyl S-2-dimethylaminoethyl methylphosphonothioate	79351-19-2	2930.90.95
ML7.b.1.c	1-Methylpentyl S-2-dipropylaminoethyl methylphosphonothioate	1253740-08-7	2930.90.95

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.c	2-(((3,3-dimethylbutan-2-yl)oxy)(methyl)phosphoryl)sulfonyl)-N,N,N-trimethylethanaminium	38770-03-5	2930.90.95
ML7.b.1.c	2,2-Dimethylpropyl S-2-diethylaminoethyl ethylphosphonothiolate	1253766-83-4	2930.90.95
ML7.b.1.c	2,2-Dimethylpropyl S-2-diisopropylaminoethyl ethylphosphonothiolate	1253767-73-5	2930.90.95
ML7.b.1.c	2,2-Dimethylpropyl S-2-dimethylaminoethyl ethylphosphonothiolate	1253768-73-8	2930.90.95
ML7.b.1.c	2,2-Dimethylpropyl S-2-dimethylaminoethyl methylphosphonothioate	56217-66-4	2930.90.95
ML7.b.1.c	2-[(Ethoxymethylphosphoryl)thio]-N,N,N-trimethylethanaminium iodide	2478-92-4	2930.90.95
ML7.b.1.c	2-[[Ethoxy(ethyl)phosphoryl]thio]-N,N,N-triethylethanaminium iodide	24578-82-3	2930.90.95
ML7.b.1.c	2-[[Ethoxy(ethyl)phosphoryl]thio]-N,N,N-trimethylethanaminium iodide	220718-05-8	2930.90.95
ML7.b.1.c	2-[[Ethoxy(methyl)phosphoryl]thio]-N,N,N-trimethylethanaminium	56217-67-5	2930.90.95
ML7.b.1.c	2-[[Ethoxy(methyl)phosphoryl]thio]-N,N-diethyl-N-methylethanaminium iodide	220718-02-5	2930.90.95
ML7.b.1.c	2-[[Ethyl(isopropoxy)phosphoryl]thio]-N,N,N-trimethylethanaminium iodide	220718-06-9	2930.90.95
ML7.b.1.c	2-[[Isopropoxy(methyl)phosphoryl]thio]-N,N,N-trimethylethanaminium	56217-69-7	2930.90.95
ML7.b.1.c	2-[[Isopropoxy(methyl)phosphoryl]thio]-N,N,N-trimethylethanaminium iodide	1866-98-4	2930.90.95
ML7.b.1.c	2-Methylbutyl S-2-dipropylaminoethyl ethylphosphonothiolate	1253735-81-7	2930.90.95
ML7.b.1.c	2-Methylbutyl S-2-dipropylaminoethyl methylphosphonothiolate	1253735-83-9	2930.90.95
ML7.b.1.c	2-Methylcyclopentyl S-2-dimethylaminoethyl ethylphosphonothiolate	1253736-58-1	2930.90.95
ML7.b.1.c	2-Methylcyclopentyl S-2-dimethylaminoethyl methylphosphonothiolate	1253736-59-2	2930.90.95
ML7.b.1.c	2-Methylpentyl S-2-diethylaminoethyl ethylphosphonothioate	959288-71-2	2930.90.95
ML7.b.1.c	2-Methylpentyl S-2-diethylaminoethyl methylphosphonothioate	468712-14-3	2930.90.95

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.c	3,3-Dimethylbutyl S-2-dimethylaminoethyl methylphosphonothioate	34388-36-8	2930.90.95
ML7.b.1.c	3,5,5-Trimethylhexyl S-2-diisopropylaminoethyl propylphosphonothioate	959257-18-2	2930.90.95
ML7.b.1.c	3,5,5-Trimethylhexyl S-2-dimethylaminoethyl propylphosphonothioate	959250-22-7	2930.90.95
ML7.b.1.c	3-Methylbutyl S-2-diethylaminoethyl methylphosphonothioate	468712-12-1	2930.90.95
ML7.b.1.c	3-Methylbutyl S-2-dipropylaminoethyl ethylphosphonothiolate	1253735-73-7	2930.90.95
ML7.b.1.c	3-Methylbutyl S-2-dipropylaminoethyl methylphosphonothiolate	1253735-78-2	2930.90.95
ML7.b.1.c	4-Methylpentyl S-2-diisopropylaminoethyl propylphosphonothioate	959054-90-1	2930.90.95
ML7.b.1.c	4-Methylpentyl S-2-dimethylaminoethyl propylphosphonothioate	959259-06-4	2930.90.95
ML7.b.1.c	Butyl S-2-diethylaminoethyl ethylphosphonothioate	468712-20-1	2930.90.95
ML7.b.1.c	Butyl S-2-diethylaminoethyl isopropylphosphonothioate	468712-46-1	2930.90.95
ML7.b.1.c	Butyl S-2-diethylaminoethyl methylphosphonothioate	468712-10-9	2930.90.95
ML7.b.1.c	Butyl S-2-diethylaminoethyl propylphosphonothioate	468712-35-8	2930.90.95
ML7.b.1.c	Butyl S-2-diisopropylaminoethyl ethylphosphonothiolate	1253757-48-0	2930.90.95
ML7.b.1.c	Butyl S-2-diisopropylaminoethyl isopropylphosphonothioate	958995-46-5	2930.90.95
ML7.b.1.c	Butyl S-2-diisopropylaminoethyl methylphosphonothioate	52364-46-2	2930.90.95
ML7.b.1.c	Butyl S-2-diisopropylaminoethyl propylphosphonothioate	959111-24-1	2930.90.95
ML7.b.1.c	Butyl S-2-dimethylaminoethyl methylphosphonothioate	56217-63-1	2930.90.95
ML7.b.1.c	Butyl S-2-dipropylaminoethyl methylphosphonothiolate	1253759-45-3	2930.90.95
ML7.b.1.c	Cyclohexyl S-2-diethylaminoethyl ethylphosphonothioate	959020-04-3	2930.90.95
ML7.b.1.c	Cyclohexyl S-2-diethylaminoethyl methylphosphonothioate	71293-89-5	2930.90.95
ML7.b.1.c	Cyclohexyl S-2-dimethylaminoethyl methylphosphonothioate	69795-06-8	2930.90.95
ML7.b.1.c	Cyclohexylmethyl S-2-diisopropylaminoethyl isopropylphosphonothioate	959233-60-4	2930.90.95
ML7.b.1.c	Cyclohexylmethyl S-2-diisopropylaminoethyl propylphosphonothioate	959268-47-4	2930.90.95

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.c	Cyclohexylmethyl S-2-dimethylaminoethyl propylphosphonothioate	959104-17-7	2930.90.95
ML7.b.1.c	Cyclooctyl S-2-dimethylaminoethyl propylphosphonothioate	959010-50-5	2930.90.95
ML7.b.1.c	Cyclopentyl S-2-diethylaminoethyl ethylphosphonothioate	468712-24-5	2930.90.95
ML7.b.1.c	Cyclopentyl S-2-diethylaminoethyl methylphosphonothioate	93240-66-5	2930.90.95
ML7.b.1.c	Cyclopentyl S-2-diisopropylaminoethyl methylphosphonothioate	85473-33-2	2930.90.95
ML7.b.1.c	Cyclopentyl S-2-dimethylaminoethyl methylphosphonothioate	22925-98-0	2930.90.95
ML7.b.1.c	Decyl S-2-diethylaminoethyl ethylphosphonothioate	468712-33-6	2930.90.95
ML7.b.1.c	Decyl S-2-diethylaminoethyl methylphosphonothioate	959288-69-8	2930.90.95
ML7.b.1.c	Decyl S-2-dimethylaminoethyl methylphosphonothiolate	1253735-72-6	2930.90.95
ML7.b.1.c	Ethyl S-2-diethylaminoethyl ethylphosphonothioate	21738-25-0	2930.90.95
ML7.b.1.c	Ethyl S-2-diethylaminoethyl ethylphosphonothioate oxalate	108302-04-1	2930.90.95
ML7.b.1.c	Ethyl S-2-diethylaminoethyl isopropylphosphonothioate	99991-06-7	2930.90.95
ML7.b.1.c	Ethyl S-2-diethylaminoethyl methylphosphonothioate	21770-86-5	2930.90.95
ML7.b.1.c	Ethyl S-2-diethylaminoethyl propylphosphonothioate	99991-07-8	2930.90.95
ML7.b.1.c	Ethyl S-2-diisopropylaminoethyl ethylphosphonothioate	73835-17-3	2930.90.95
ML7.b.1.c	Ethyl S-2-diisopropylaminoethyl propylphosphonothioate	218964-60-4	2930.90.95
ML7.b.1.c	Ethyl S-2-diisopropylammoniumethyl methylphosphonothiolate chloride	1253746-35-8	2930.90.95
ML7.b.1.c	Ethyl S-2-diisopropylmethylammoniumethyl ethylphosphonothiolate iodide	1253742-77-6	2930.90.95
ML7.b.1.c	Ethyl S-2-dimethylaminoethyl ethylphosphonothioate	98543-25-0	2930.90.95
ML7.b.1.c	Ethyl S-2-dimethylaminoethyl isopropylphosphonothiolate	1253744-32-9	2930.90.95
ML7.b.1.c	Ethyl S-2-dimethylaminoethyl propylphosphonothioate	218964-59-1	2930.90.95
ML7.b.1.c	Ethyl S-2-dipropylaminoethyl methylphosphonothioate	62512-68-9	2930.90.95
ML7.b.1.c	Heptyl S-2-diethylaminoethyl ethylphosphonothioate	468712-29-0	2930.90.95
ML7.b.1.c	Heptyl S-2-diethylaminoethylmethylphosphonothioate	468712-17-6	2930.90.95
ML7.b.1.c	Heptyl S-2-diisopropylaminoethyl isopropylphosphonothioate	959233-58-0	2930.90.95
ML7.b.1.c	Hexyl S-2-diethylaminoethyl ethylphosphonothioate	468712-25-6	2930.90.95

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.c	Hexyl S-2-diethylaminoethyl methylphosphonothioate	468712-15-4	2930.90.95
ML7.b.1.c	Hexyl S-2-diisopropylaminoethyl methylphosphonothioate	82721-31-1	2930.90.95
ML7.b.1.c	Hexyl S-2-dimethylaminoethyl methylphosphonothioate	69777-00-0	2930.90.95
ML7.b.1.c	Isobutyl S-2-diethylaminoethyl ethylphosphonothioate	468712-21-2	2930.90.95
ML7.b.1.c	Isobutyl S-2-diethylaminoethyl isopropylphosphonothioate	468712-47-2	2930.90.95
ML7.b.1.c	Isobutyl S-2-diethylaminoethyl methylphosphonothioate	159939-87-4	2930.90.95
ML7.b.1.c	Isobutyl S-2-diethylaminoethyl propylphosphonothioate	468712-36-9	2930.90.95
ML7.b.1.c	Isobutyl S-2-diisopropylaminoethyl methylphosphonothioate	855307-83-4	2930.90.95
ML7.b.1.c	Isobutyl S-2-dimethylaminoethyl ethylphosphonothiolate	1253771-21-9	2930.90.95
ML7.b.1.c	Isobutyl S-2-dimethylaminoethyl methylphosphonothioate	56217-65-3	2930.90.95
ML7.b.1.c	Isobutyl S-2-dipropylaminoethyl methylphosphonothiolate	1253772-23-4	2930.90.95
ML7.b.1.c	Isopentyl S-2-diethylaminoethyl ethylphosphonothioate	468712-23-4	2930.90.95
ML7.b.1.c	Isopropyl S-2-diethylaminoethyl ethylphosphonothioate	162085-93-0	2930.90.95
ML7.b.1.c	Isopropyl S-2-diethylaminoethyl methylphosphonothioate	91134-95-1	2930.90.95
ML7.b.1.c	Isopropyl S-2-diethylaminoethyl propylphosphonothioate	468712-34-7	2930.90.95
ML7.b.1.c	Isopropyl S-2-diethylpropylammoniummethyl ethylphosphonothiolate iodide	1253752-57-6	2930.90.95
ML7.b.1.c	Isopropyl S-2-diisopropylaminoethyl ethylphosphonothioate	162085-95-2	2930.90.95
ML7.b.1.c	Isopropyl S-2-diisopropylaminoethyl isopropylphosphonothioate	959289-50-0	2930.90.95
ML7.b.1.c	Isopropyl S-2-diisopropylaminoethyl methylphosphonothioate	51446-23-2	2930.90.95
ML7.b.1.c	Isopropyl S-2-dimethylaminoethyl (R)-methylphosphonothioate	13915-99-6	2930.90.95
ML7.b.1.c	Isopropyl S-2-dimethylaminoethyl (S)-methylphosphonothioate	13915-98-5	2930.90.95
ML7.b.1.c	Isopropyl S-2-dimethylaminoethyl ethylphosphonothioate	162085-92-9	2930.90.95
ML7.b.1.c	Isopropyl S-2-dimethylaminoethyl methylphosphonothioate	21068-52-0	2930.90.95
ML7.b.1.c	Isopropyl S-2-dimethylpropylammoniummethyl ethylphosphonothiolate iodide	1253753-51-3	2930.90.95
ML7.b.1.c	Methyl S-2-diethylaminoethyl ethylphosphonothioate	170800-77-8	2930.90.95
ML7.b.1.c	Methyl S-2-diethylaminoethyl methylphosphonothioate	203385-78-8	2930.90.95

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.c	Methyl S-2-diisopropylaminoethyl ethylphosphonothioate	162085-94-1	2930.90.95
ML7.b.1.c	Methyl S-2-diisopropylaminoethyl methylphosphonothioate	198830-32-9	2930.90.95
ML7.b.1.c	Methyl S-2-dimethylaminoethyl ethylphosphonothioate	468712-18-7	2930.90.95
ML7.b.1.c	Methyl S-2-dimethylaminoethyl methylphosphonothioate	108490-92-2	2930.90.95
ML7.b.1.c	N-(2-[[Ethoxy(methyl)phosphoryl]thio]ethyl)-N-isopropyl-N-methylpropan-2-aminium iodide	220718-03-6	2930.90.95
ML7.b.1.c	N,N-Diethyl-2-[[cyclohexyloxy)methylphosphoryl]thio]-N-methylethanaminium iodide	132412-52-3	2930.90.95
ML7.b.1.c	Nonyl S-2-diethylaminoethyl ethylphosphonothioate	468712-32-5	2930.90.95
ML7.b.1.c	Nonyl S-2-dipropylaminoethyl ethylphosphonothiolate	1253735-84-0	2930.90.95
ML7.b.1.c	Nonyl S-2-dipropylaminoethyl methylphosphonothiolate	1253736-10-5	2930.90.95
ML7.b.1.c	Octyl S-2-diethylaminoethyl ethylphosphonothioate	468712-30-3	2930.90.95
ML7.b.1.c	Octyl S-2-dimethylaminoethyl propylphosphonothioate	959010-49-2	2930.90.95
ML7.b.1.c	O-Ethyl-diisopropylaminoethyl methyl phosphonothiolate; VX	50782-69-9	2930.90.95
ML7.b.1.c	O-sec-butyl S-[2-(dimethylamino)ethyl] ethylphosphonothioate oxalate	50929-97-0	2930.90.95
ML7.b.1.c	Pentyl S-2-diethylaminoethyl ethylphosphonothiolate	1253761-22-6	2930.90.95
ML7.b.1.c	Pentyl S-2-diethylaminoethyl methylphosphonothiolate	1253764-67-8	2930.90.95
ML7.b.1.c	Pentyl S-2-diisopropylaminoethyl methylphosphonothioate	198830-36-3	2930.90.95
ML7.b.1.c	Pentyl S-2-dimethylaminoethyl ethylphosphonothiolate	1253762-74-1	2930.90.95
ML7.b.1.c	Pentyl S-2-dimethylaminoethyl methylphosphonothioate	56217-64-2	2930.90.95
ML7.b.1.c	Pentyl S-2-dipropylaminoethyl ethylphosphonothiolate	1253763-58-4	2930.90.95
ML7.b.1.c	Pentyl S-2-dipropylaminoethyl methylphosphonothiolate	1253765-64-8	2930.90.95
ML7.b.1.c	Phosphonothioic acid, P-methyl-, S-[2-[bis(1-methylethyl)amino]ethyl] O-ethyl ester	50782-69-9	2930.90.95
ML7.b.1.c	Propyl S-2-diethylaminoethyl ethylphosphonothioate	468712-19-8	2930.90.95
ML7.b.1.c	Propyl S-2-diethylaminoethyl propylphosphonothioate	959288-70-1	2930.90.95
ML7.b.1.c	Propyl S-2-diisopropylaminoethyl ethylphosphonothiolate	1253755-29-1	2930.90.95
ML7.b.1.c	Propyl S-2-diisopropylaminoethyl methylphosphonothioate	52364-45-1	2930.90.95
ML7.b.1.c	Propyl S-2-diisopropylaminoethyl propylphosphonothioate	958997-62-1	2930.90.95
ML7.b.1.c	Propyl S-2-dimethylaminoethyl methylphosphonothioate	56217-62-0	2930.90.95

Reference	Chemical name	CAS number	CN code¹
ML7.b.1.c	Propyl S-2-dimethylaminoethyl propylphosphonothioate	959259-05-3	2930.90.95
ML7.b.1.c	Propyl S-2-dipropylaminoethyl methylphosphonothiolate	1253756-54-5	2930.90.95
ML7.b.1.c	Propyl S-2-dipropylaminoethyl propylphosphonothioate	959233-79-5	2930.90.95
ML7.b.1.c	S-(2-([2-(dimethylamino)ethyl]sulfanyl)ethyl) hydrogen methylphosphonothioate	170082-85-6	2930.90.95
ML7.b.1.c	S-[2-(diethylamino)ethyl] O-ethyl methylphosphonothioate 4-methylbenzenesulfonate	107059-49-4	2930.90.95
ML7.b.1.c	S-[2-(diethylamino)ethyl] O-ethyl methylphosphonothioate oxalate	108776-13-2	2930.90.95
ML7.b.1.c	S-[2-(Dimethylamino)ethyl] O-ethyl methylphosphonothioate	20820-80-8	2930.90.95
ML7.b.1.c	S-[2-(dimethylamino)ethyl] O-ethyl methylphosphonothioate oxalate	2641-09-0	2930.90.95
ML7.b.1.c	S-[2-(dimethylamino)ethyl] O-isopropyl methylphosphonothioate oxalate	2478-93-5	2930.90.95
ML7.b.1.c	S-2 Diethylaminoethyl ethylphosphonothioate	161935-18-8	2930.90.95
ML7.b.1.c	S-2 Diisopropylaminoethyl ethylphosphonothioate	161935-16-6	2930.90.95
ML7.b.1.c	S-2-Diethylaminoethyl methylphosphonothioate	21068-51-9	2930.90.95
ML7.b.1.c	S-2-Diisopropylaminoethyl methylphosphonothioate	73207-98-4	2930.90.95
ML7.b.1.c	S-2-Dimethylaminoethyl ethylphosphonothiolate	1253735-44-2	2930.90.95
ML7.b.1.c	S-2-Dimethylaminoethyl methylphosphonothioate	34256-71-8	2930.90.95
ML7.b.1.c	S-2-Dimethylaminoethyl propylphosphonothiolate	1253735-61-3	2930.90.95
ML7.b.1.c	S-2-Dipropylaminoethyl methylphosphonothioate	30102-97-7	2930.90.95
ML7.b.1.c	sec-Butyl S-2-diethylaminoethyl ethylphosphonothioate	468712-22-3	2930.90.95
ML7.b.1.c	sec-Butyl S-2-diethylaminoethyl isopropylphosphonothioate	468712-48-3	2930.90.95
ML7.b.1.c	sec-Butyl S-2-diethylaminoethyl methylphosphonothioate	468712-11-0	2930.90.95
ML7.b.1.c	sec-Butyl S-2-diethylaminoethyl propylphosphonothioate	468712-37-0	2930.90.95
ML7.b.1.c	sec-Butyl S-2-diisopropylaminoethyl isopropylphosphonothioate	959040-29-0	2930.90.95
ML7.b.1.c	sec-Butyl S-2-diisopropylaminoethyl methylphosphonothiolate	1253773-82-8	2930.90.95
ML7.b.1.c	sec-Butyl S-2-diisopropylaminoethyl propylphosphonothioate	959257-17-1	2930.90.95
ML7.b.1.c	sec-Butyl S-2-dimethylaminoethyl ethylphosphonothioate	50929-96-9	2930.90.95

Reference	Chemical name	CAS number	CN code ¹
ML7.b.1.c	tert-Butyl S-2-diethylaminoethyl methylphosphonothioate	288578-18-7	2930.90.95
ML7.b.2.a.1	2-Chloroethylchloromethylsulphide; sulphur mustard	2625-76-5	2930.90.95
ML7.b.2.a.2	Bis (2-chloroethyl) sulphide; sulphur mustard	505-60-2	2930.90.95
ML7.b.2.a.3	Bis (2-chloroethylthio) methane; sulphur mustard	63869-13-6	2930.90.95
ML7.b.2.a.4	1,2-Bis (2-chloroethylthio)ethane; sulphur mustard	3563-36-8	2930.90.95
ML7.b.2.a.5	1,3-Bis (2-chloroethylthio)-n-propane; sulphur mustard	63905-10-2	2930.90.95
ML7.b.2.a.6	1,4-Bis (2-chloroethylthio)-n-butane; sulphur mustard	142868-93-7	2930.90.95
ML7.b.2.a.7	1,5-Bis (2-chloroethylthio)-n-pentane; sulphur mustard	142868-94-8	2930.90.95
ML7.b.2.a.8	Bis (2-chloroethylthiomethyl) ether; sulphur mustard	63918-90-1	2930.90.95
ML7.b.2.a.9	Bis (2-chloroethylthioethyl) ether; sulphur mustard	63918-89-8	2930.90.95
ML7.b.2.b.1	2-Chlorovinylchloroarsine; Lewisite 1	541-25-3	2931.90.00
ML7.b.2.b.2	Tris (2-chlorovinyl) arsine; Lewisite 2	40334-70-1	2931.90.00
ML7.b.2.b.3	Bis (2-chlorovinyl) chloroarsine; Lewisite 3	40334-69-8	2931.90.00
ML7.b.2.c.1	Bis(2-chloroethyl)ethylamine; HN-1	538-07-8	2921.19.99
ML7.b.2.c.2	Bis-(2-chloroethyl) methylamine; HN-2	51-75-2	2921.19.99
ML7.b.2.c.3	Tris-(2-chloroethyl) amine; HN-3	555-77-1	2921.19.99
ML7.b.3.a	3-Quinuclidinyl benzilate; BZ	6581-06-2	2933.39.99
ML7.b.4.a	Butyl 2-chloro-4-fluorophenoxyacetate; LNF	N/A	2918.29.00
ML7.b.4.b	Agent Orange	39277-47-9	3808.59.00
ML7.c.1	Isopropylphosphonic difluoride	677-42-9	2931.59.90
ML7.c.1	Methylphosphonyl difluoride; DF	676-99-3	2931.59.10
ML7.c.1	Propylphosphonic difluoride	690-14-2	2931.59.90
ML7.c.1	Ethylphosphonyl difluoride	753-98-0	2931.59.90
ML7.c.2	Butyl 2-diethylaminoethyl methylphosphonite	169662-68-4	2931.49.80
ML7.c.2	Cyclopentyl 2-diisopropylaminoethyl methylphosphonite	1282026-51-0	2931.49.80
ML7.c.2	Ethyl 2-diethylaminoethyl methylphosphonite	55523-55-2	2931.49.80
ML7.c.2	O-Ethyl O-2-diisopropylaminoethyl methylphosphonite; QL	57856-11-8	2931.49.80
ML7.c.3	O-Isopropyl methylphosphonochloridate; Chlorosarin	1445-76-7	2931.59.90

Reference	Chemical name	CAS number	CN code ¹
ML7.c.4	3-[chloro(methyl)phosphoryl]oxy-2,2-dimethylbutane; O-Pinacolyl methylphosphonochloridate; Chlorosoman	7040-57-5	2931.59.90
ML7.d.1	α -Bromobenzeneacetonitrile; CA	5798-79-8	2926.90.70
ML7.d.2	[(2-Chlorophenyl) methylene] propanedinitrile; CS	2698-41-1	2926.90.70
ML7.d.3	2-Chloro-1-phenylethanone; CN	532-27-4	2914.79.00
ML7.d.4	Dibenzo-(b,f)-1,4-oxazepine; CR	257-07-8	2934.99.90
ML7.d.5	10-chloro-5,10-dihydrophenarsazine; DM	578-94-9	2934.99.90
ML7.d.6	N-Nonanoylmorpholine; MPA	5299-64-9	2934.99.90
ML8.a.1	7-amino-4,6-dinitrobenzofurazane-1-oxid; ADNBF	97096-78-1	2934.99.90
ML8.a.2	Cis-bis (5-nitrotetrazolato) tetra amine-cobalt (III) perchlorate; BNCP	117412-28-9	2933.99.80
ML8.a.3	5,7-diamino-4,6-dinitrobenzofurazane-1-oxide; CL-14	117907-74-1	2934.99.90
ML8.a.4	Hexanitrohexaazaisowurtzitane; CL-20 or HNIW; chlathrates of CL-20	135285-90-4	2933.99.80
ML8.a.5	2-(5-cyanotetrazolato) penta amine-cobalt (III) perchlorate; CP	70247-32-4	2933.99.80
ML8.a.6	1,1-diamino-2,2-dinitroethylene; DADE	145250-81-3	2921.29.00
ML8.a.7	Diaminotrinitrobenzene; DATB	1630-08-6	2921.51.19
ML8.a.8	1,4-dinitrodifurazanopiperazine; DDFP	N/A	2934.99.90
ML8.a.9	2,6-diamino-3,5-dinitropyrazine-1-oxide; DDPO	194486-77-6	2933.99.80
ML8.a.10	3,3'-diamino-2,2',4,4',6,6'-hexanitrobiphenyl; DIPAM	17215-44-0	2921.59.90
ML8.a.11	Dinitroglycoluril; DNGU or DINGU	55510-04-8	2933.99.80
ML8.a.12.a	Diaminoazoxyfurazan; DAAOF	78644-89-0	2934.99.90
ML8.a.12.b	Diaminoazofurazan; DAAZF	78644-90-3	2934.99.90
ML8.a.13.a	Cyclotetramethylenetetranitramine; HMX or octogen	2691-41-0	2933.99.80
ML8.a.13.c	2,4,6,8-tetranitro-2,4,6,8-tetraazabicyclo [3,3,0]-octanone-3; K-55	130256-72-3	2933.99.80
ML8.a.14	Hexanitroadamantane; HNAD	143850-71-9	2904.20.00
ML8.a.15	Hexanitrostilbene; HNS	20062-22-0	2904.20.00
ML8.a.16.a	Octahydro-2,5-bis(nitroimino)imidazo [4,5-d]imidazole; BNNII	N/A	2933.99.80
ML8.a.16.b	2,4-dinitroimidazole; DNI	5213-49-0	2933.29.90

Reference	Chemical name	CAS number	CN code ¹
ML8.a.16.c	1-fluoro-2,4-dinitroimidazole; FDIA	N/A	2933.29.90
ML8.a.16.d	N-(2-nitrotriazolo)-2,4-dinitroimidazole; NTDNIA	N/A	2933.29.90
ML8.a.16.e	1-picryl-2,4,5-trinitroimidazole; PTIA	N/A	2933.29.90
ML8.a.17	1-(2-nitrotriazolo)-2-dinitromethylene hydrazine; NTNMH	N/A	2928.00.90
ML8.a.18	3-nitro-1,2,4-triazol-5-one; NTO or ONTA	932-64-9	2933.99.80
ML8.a.19	Polynitrocubanes with more than four nitro groups	N/A	2902.19.00
ML8.a.20	2,6-Bis(picrylamino)-3,5-dinitropyridine; PYX	38082-89-2	2933.39.99
ML8.a.21.a	Cyclotrimethylenetrinitramine; RDX	121-82-4	2933.69.10
ML8.a.21.b	2,4,6-trinitro-2,4,6-triazacyclohexanone; Keto-RDX or K-6	115029-35-1	2933.69.80
ML8.a.22	Triaminoguanidinenitrate; TAGN	4000-16-2	2928.00.90
ML8.a.23	Triaminotrinitrobenzene; TATB	3058-38-6	2921.59.90
ML8.a.24	3,3,7,7-tetrabis(difluoroamine) octahydro-1,5-dinitro-1,5-diazocine; TEDDZ	N/A	2933.99.80
ML8.a.25.a	Nitrotriazol aminotetrazole; NTAT	N/A	2933.99.80
ML8.a.25.b	1-N-(2-nitrotriazolo)-4-nitrotetrazole; NTNT	N/A	2933.99.80
ML8.a.26	Trinitrophenylmethylnitramine; Tetryl	479-45-8	2929.90.90
ML8.a.27	1,4,5,8-tetranitro-1,4,5,8-tetraazadecalin; TNAD	135877-16-6	2933.99.80
ML8.a.28	1,3,3-trinitroazetidine; TNAZ	97645-24-4	2933.99.80
ML8.a.29	Tetranitroglycoluril; TNGU or SORGUYL	55510-03-7	2933.99.80
ML8.a.30	1,4,5,8-tetranitro-pyridazino[4,5-d]pyridazine; TNP	229176-04-9	2933.99.80
ML8.a.31.a	2-oxy-4,6-dinitroamino-s-triazine; DNAM	19899-80-0	2933.69.80
ML8.a.31.b	2-nitroimino-5-nitro-hexahydro-1,3,5-triazine; NNHT	130400-13-4	2933.69.80
ML8.a.32.a	5-Azido-2-nitrotriazole	53566-50-0	2933.99.80
ML8.a.32.b	4-amino-3,5-dihydrazino-1,2,4-triazole dinitramide; ADHTDN	1614-08-0	2933.99.80
ML8.a.32.c	1-amino-3,5-dinitro-1,2,4-triazole; ADNT	N/A	2933.99.80
ML8.a.32.d	[bis-dinitrotriazole]amine; BDNTA	N/A	2933.99.80
ML8.a.32.e	3,3'-dinitro-5,5-bi-1,2,4-triazole; DBT	30003-46-4	2933.99.80
ML8.a.32.f	Dinitrobistriazole; DNBT	70890-46-9	2933.99.80
ML8.a.32.h	1-N-(2-nitrotriazolo) 3,5-dinitrotriazole; NTDNT	N/A	2933.99.80

Reference	Chemical name	CAS number	CN code ¹
ML8.a.32.i	1-picryl-3,5-dinitrotriazole; PDNT	N/A	2933.99.80
ML8.a.32.j	Tetranitrobenzotriazolobenzotriazole; TACOT	25243-36-1	2933.99.80
ML8.a.35	2,4-dinitroanisole; DNAN	119-27-7	2909.30.90
ML8.a.36	4,10-Dinitro-2,6,8,12-tetraoxa-4,10-diazaisowurtzitane; TEX	N/A	2934.99.90
ML8.a.37	Guanylurea dinitramide; GUDN or FOX-12	217464-38-5	2925.29.00
ML8.a.38.a	Bis(2,2,2-trinitroethyl)-3,6-diaminotetrazine; BTAT	N/A	2933.99.80
ML8.a.38.b	3,6-diamino-1,2,4,5-tetrazine-1,4-dioxide; LAX-112	153757-93-8	2933.99.80
ML8.a.40	Bis(2,2,2-trinitroethyl)-nitramine; BTNEN	19836-28-3	2929.90.90
ML8.a.41	5,6-(3',4'-furazano)-1,2,3,4-tetrazine-1,3-dioxide; FTDO	N/A	2934.99.90
ML8.a.42	Ethylenedinitramine; EDNA	505-71-5	2929.90.90
ML8.a.43	Dihydroxylammonium 5,5'-bistetrazole-1,1'-diolate; TKX-50	N/A	2933.99.80
ML8.c.2	Aluminium hydride; alane	7784-21-6	2850.00.20
ML8.c.3.b.1	Decaborane; B ₁₀ H ₄	17702-41-9	2850.00.20
ML8.c.3.b.2	Pentaborane-11; B ₅ H ₁₁	18433-84-6	2850.00.20
ML8.c.3.b.3	Pentaborane-9; B ₅ H ₉	19624-22-7	2850.00.20
ML8.c.4.a	Hydrazine	302-01-2	2825.10.00
ML8.c.4.b	Monomethylhydrazine	60-34-4	2928.00.90
ML8.c.4.c	Symmetrical dimethyl hydrazine	540-73-8	2928.00.90
ML8.c.4.d	Unsymmetrical dimethylhydrazine; UDMH	57-14-7	2928.00.90
ML8.c.5.a.1	Beryllium powder	7440-41-7	8112.12.00
ML8.c.5.a.2	Iron powder	7439-89-6	7205.29.00
ML8.c.5.b.1	Magnesium powder	7439-95-4	8104.30.00
ML8.c.5.b.1	Zirconium powder	7440-67-7	8109.29.00
ML8.c.5.b.2	Boron carbide powder; B ₄ C	12069-32-8	2849.90.10
ML8.c.5.b.2	Boron powder	7440-42-8	2804.50.10
ML8.c.6	Aluminium tristearate; octal	637-12-7	2915.70.50
ML8.c.8	Aluminium powder	7429-90-5	7603.10.00
ML8.c.9	Titanium subhydride	7704-98-5	2850.00.20
ML8.d.1	Ammonium dinitramide; ADN	140456-78-6	2853.90.90

Reference	Chemical name	CAS number	CN code ¹
ML8.d.10	Inhibited red fuming nitric acid; IRFNA	8007-58-7	2808.00.00
ML8.d.2	Ammonium perchlorate; AP	7790-98-9	2829.90.10
ML8.d.3	Bromine pentafluoride; BrF ₅	7789-30-2	2812.90.00
ML8.d.3	Bromine trifluoride; BrF ₃	7787-71-5	2812.90.00
ML8.d.3	Bromyl fluoride; BrO ₂ F	22585-64-4	2812.90.00
ML8.d.3	Chlorine monofluoride; ClF	7790-89-8	2812.90.00
ML8.d.3	Chlorine pentafluoride; ClF ₅	13637-63-3	2812.90.00
ML8.d.3	Chloryl fluoride; ClO ₂ F	13637-83-7	2812.90.00
ML8.d.3	Perbromyl fluoride	25251-03-0	2812.90.00
ML8.d.3	Perbromyl fluoride; BrO ₃ F	25251-03-0	2812.90.00
ML8.d.3	Perchloryl trifluoride; ClO ₃ F	7616-94-6	2812.90.00
ML8.d.4	1,3-dinitro-1,3-diazetidine; DNAD	78246-06-7	2933.99.80
ML8.d.5	Hydroxylammonium nitrate; HAN	13465-08-2	2825.10.00
ML8.d.6	Hydroxylammonium perchlorate; HAP	15588-62-2	2825.10.00
ML8.d.7	Hydrazinium nitroformate; HNF	20773-28-8	2928.00.90
ML8.d.8	Hydrazine nitrate	37836-27-4	2825.10.00
ML8.d.9	Hydrazinium perchlorate	27978-54-7	2825.10.00
ML8.e.1	Azidomethylmethyloxetane; AMMO	90683-29-7	2932.99.00
ML8.e.2	3,3-bis(azidomethyl)oxetane; BAMO	17607-20-4	2932.99.00
ML8.e.3	Bis (2,2-dinitropropyl)acetal; BDNPA	5108-69-0	2911.00.00
ML8.e.4	Bis (2,2-dinitropropyl)formal; BDNPF	5917-61-3	2911.00.00
ML8.e.5	Butanetrioltrinitrate; BTTN	6659-60-5	2920.90.70
ML8.e.7	3-difluoroaminomethyl-3-azidomethyl oxetane; FAMA0	N/A	2932.99.00
ML8.e.8	Bis-(2-fluoro-2,2-dinitroethyl) formal; FEFO	17003-79-1	2911.00.00
ML8.e.9	Poly-2,2,3,3,4,4-hexafluoropentane-1,5-diol formal; FPF-1	376-90-9	3907.10.00
ML8.e.10	Poly-2,4,4,5,5,6,6-heptafluoro-2-tri-fluoromethyl-3-oxaheptane-1,7-diol formal ; FPF-3	N/A	3907.10.00
ML8.e.11	Glycidylazide polymer; GAP	143178-24-9	3907.29.11
ML8.e.12	Hydroxyl terminated polybutadiene; HTPB	69102-90-5	4002.20.00

Reference	Chemical name	CAS number	CN code ¹
ML8.e.14	2-(butylnitroamino)ethyl nitrate; Butyl-NENA	82486-82-6	2929.90.90
ML8.e.14	2-(ethylnitroamino)ethyl nitrate; Ethyl-NENA	85068-73-1	2929.90.90
ML8.e.14	2-(methylnitroamino)ethyl nitrate; Methyl-NENA	17096-47-8	2929.90.90
ML8.e.14	2-(propylnitroamino)ethyl nitrate; Propyl-NENA	82486-83-7	2929.90.90
ML8.e.14	2-[nitro(pentyl)amino]ethyl nitrate	85954-06-9	2929.90.90
ML8.e.15	Polyglycidynitrate; Poly-GLYN or PGN	27814-48-8	3907.29.11
ML8.e.16	Poly(3-nitratomethyl-3-methyloxetane); Poly-NIMMO	84051-81-0	2932.99.00
ML8.e.18	1,2,3-tris[1,2-bis(difluoroamino)ethoxy] propane; TVOPA	53159-39-0	2929.90.90
ML8.e.19	4,5-diazidomethyl-2-methyl-1,2,3-triazole; iso-DAMTR	N/A	2933.99.80
ML8.e.20	Poly(3-nitrato oxetane); PNO	N/A	3907.29.11
ML8.e.21	Trimethylolethane trinitrate; TMETN	3032-55-1	2920.90.70
ML8.f.1	Basic copper salicylate	62320-94-9	2918.21.00
ML8.f.2	Bis-(2-hydroxyethyl) glycolamide; BHEGA	17409-41-5	2924.19.00
ML8.f.4.a	Butacene	125856-62-4	4002.20.00
ML8.f.4.b	Catocene	37206-42-1	2931.90.00
ML8.f.4.c	1,1'-Ferrocenedicarboxylic acid	1293-87-4	2931.90.00
ML8.f.4.c	Ferrocene carboxylic acid	1271-42-7	2931.90.00
ML8.f.4.d	n-Butyl ferrocene	31904-29-7	2931.90.00
ML8.f.4.f	Ethyl ferrocene	1273-89-8	2931.90.00
ML8.f.4.g	iso-propyl ferrocene	12126-81-7	2931.90.00
ML8.f.4.g	n-Propyl ferrocene	1273-92-3	2931.90.00
ML8.f.4.h	Pentyl ferrocene	1274-00-6	2931.90.00
ML8.f.4.i	Dicyclopentyl ferrocene	125861-17-8	2931.90.00
ML8.f.4.j	Dicyclohexyl ferrocene	N/A	2931.90.00
ML8.f.4.k	Diethyl ferrocene	1273-97-8	2931.90.00
ML8.f.4.l	Dipropyl ferrocene	N/A	2931.90.00
ML8.f.4.m	Dibutyl ferrocene	1274-08-4	2931.90.00
ML8.f.4.n	Dihexyl ferrocene	93894-59-8	2931.90.00
ML8.f.4.o	1,1'-Diacetyl ferrocene	1273-94-5	2931.90.00

Reference	Chemical name	CAS number	CN code ¹
ML8.f.4.o	Acetyl ferrocene	1271-55-2	2931.90.00
ML8.f.5	Copper β -resorcylate	70983-44-7	2918.29.00
ML8.f.5	Lead β -resorcylate	20936-32-7	2918.29.00
ML8.f.6	Lead citrate	14450-60-3	2918.15.00
ML8.f.7	Lead-copper chelates of beta-resorcylate or salicylates	68411-07-4	3824.99.93
ML8.f.8	Lead maleate	19136-34-6	2917.19.80
ML8.f.9	Lead salicylate	15748-73-9	2918.21.00
ML8.f.10	Lead stannate; PbSnO ₃	12036-31-6	2841.90.85
ML8.f.11	bis(2-methyl aziridinyl); BOBBA 8	N/A	2933.99.80
ML8.f.11	Tris-1-(2-methyl)aziridinyl phosphine oxide; MAPO	57-39-6	2933.99.80
ML8.f.12	N-methyl-P,P-bis(2-methylaziridin-1-yl)phosphinamide; Methyl BAPO	85068-72-0	2933.99.80
ML8.f.13	N-Methyl-p-nitroaniline	100-15-2	2921.42.00
ML8.f.14	3-Nitrazo-1,5-pentane diisocyanate	7406-61-9	2929.10.00
ML8.f.15.a	LICA 12	103850-22-2	2919.90.00
ML8.f.15.a	Titanium IV, 2,2[bis 2-propenolato-methyl, butanolato, tris (dioctyl) phosphato]	110438-25-0	2919.90.00
ML8.f.15.b	Titanium IV, [(2-propenolato-1) methyl, n-propanolatomethyl] butanolato-1, tris[dioctyl] pyrophosphate; KR3538	N/A	2919.90.00
ML8.f.15.c	Titanium IV, [(2-propenolato-1) methyl, n-propanolatomethyl] butanolato-1, tris(dioctyl)phosphate	N/A	2919.90.00
ML8.f.17.a	1,1',1''-Trimesoyl-tris(2-ethylaziridine); HX-868	7722-73-8	2933.99.80
ML8.f.17.b	1,1'-Isophthaloyl-bis(2-methylaziridine)	7652-64-4	2933.99.80
ML8.f.17.b	1,1'-Trimethyladipoylbis(2-ethylaziridine)	71463-62-2	2933.99.80
ML8.f.17.b	2,4,6-tris(2-Ethyl-1-aziridinyl)-1,3,5-triazine	18924-91-9	2933.69.80
ML8.f.18	Propyleneimine or 2-methylaziridine	75-55-8	2933.99.80
ML8.f.19	Superfine iron oxide; Fe ₂ O ₃	1317-60-8	2821.10.00
ML8.f.20	Tetraethylenepentaamineacrylonitrile; Tepan	68412-45-3	2926.90.70
ML8.f.21	Tetraethylenepentaamine acrylonitrileglycidol; Tepanol	68412-46-4	2926.90.70
ML8.f.22	Triphenyl bismuth; TPB	603-33-8	2931.90.00
ML8.f.23	Tris (ethoxyphenyl) bismuth); TEPB	90591-48-3	2931.90.00

Reference	Chemical name	CAS number	CN code¹
ML8.g.1	3,3-bis(chloromethyl)oxetane; BCMO	78-71-7	2932.99.00
ML8.g.2	Dinitroazetidine-t-butyl salt	125735-38-8	2933.99.80
ML8.g.3	Hexabenzylhexaazaisowurtzitane; HBIW	124782-15-6	2933.59.95
ML8.g.3	Tetraacetyldibenzylhexaazaisowurtzitane; TAIW	182763-60-6	2933.59.95
ML8.g.5	1,3,5,7 tetraacetyl-1,3,5,7-tetraaza cyclo-octane; TAT	41378-98-7	2933.99.80
ML8.g.6	1,4,5,8-Tetraazadecalin	5409-42-7	2933.99.80
ML8.g.7	1,3,5-Trichlorobenzene	108-70-3	2903.99.80
ML8.g.8	1,2,4-Trihydroxybutane	3068-00-6	2905.49.00
ML8.g.9	1,5-diacetyl-3,7-dinitro-1,3,5,7-tetraaza-cyclooctane; DADN	N/A	2933.99.80

¹ in bold new chemicals or new CN codes.

Source: European Commission.

2.4. Explosives precursors

Since 2014, EU-wide rules on the marketing and use of explosives precursors were in place under Regulation (EU) No 98/2013³⁹. However, the threat from homemade explosives remained high and continued to evolve. Therefore, it was necessary to further strengthen and harmonise the system for preventing the illicit manufacture of homemade explosives. Regulation (EU) No 2019/1148⁴⁰ of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors was thus adopted, repealing Regulation (EU) No 2019/1148 with effect from 1 February 2021.

Although export controls are not explicitly mentioned in this regulation, access to and use of explosives precursors by members of the general public is restricted. However, Member States can decide to grant the public access to these substances through a system of licenses and registration.

In 2019, the European Commission developed guidelines⁴¹ intended to assist Member States' national authorities, economic operators, and online marketplaces in the application of the regulation.

The regulation establishes two types of explosives precursors and lists them in two annexes. Table 6 describes the two annexes, while Table 7 shows the chemicals under the regulation.

The regulation sets quantity thresholds for these substances. If the amount sold or supplied exceeds these thresholds, prior authorization from the competent national authority is required.

Table 6. Description of the annexes to the Regulation (EU) No 2019/1148.

Annex	Description
Annex I	Substances which shall not be made available to members of the general public on their own, or in mixtures or substances including them, except if the concentration is equal to or lower than the limit values set out below
Annex II	Substances on their own or in mixtures or in substances for which suspicious transactions shall be reported

Source: European Commission.

³⁹ Regulation (EU) No 98/2013 of the European Parliament and the Council of 15 January 2013 on the marketing and use of explosives precursors, <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A02013R0098-20170301>

⁴⁰ Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013, <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A32019R1148>

⁴¹ Commission Notice Guidelines for the implementation of Regulation (EU) 2019/1148 on the marketing and use of explosives precursors (2020/C 210/01), [https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52020XC0624\(01\)](https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52020XC0624(01))

Table 7. Chemicals subject to the regulation on explosives precursors, (EU) No 2019/1148.

Reference	Chemical name	CAS number	CN code
Annex I	Nitric acid; HNO ₃	7697-37-2	2808.00.00
Annex I	Hydrogen peroxide; H ₂ O ₂	7722-84-1	2847.00.00
Annex I	Sulphuric acid; H ₂ SO ₄	7664-93-9	2807.00.00
Annex I	Nitromethane	75-52-5	2904.20.00
Annex I	Ammonium nitrate; NH ₄ NO ₃	6484-52-2	3102.30 (subheading)
Annex I	Potassium chlorate; KClO ₃	3811-04-9	2829.19.00
Annex I	Potassium perchlorate; KClO ₄	7778-74-7	2829.90.10
Annex I	Sodium chlorate; NaClO ₃	7775-09-9	2829.11.00
Annex I	Sodium perchlorate; NaClO ₄	7601-89-0	2829.90.10
Annex II	Hexamethylenetetramine; Hexamine	100-97-0	2933.69.40
Annex II	Acetone	67-64-1	2914.11.00
Annex II	Potassium nitrate; KNO ₃	7757-79-1	2834.21.00
Annex II	Sodium nitrate; NaNO ₃	7631-99-4	3102.50.00
Annex II	Calcium nitrate; Ca(NO ₃) ₂	10124-37-5	2834.29.80
Annex II	Calcium ammonium nitrate	15245-12-2	3102.60.00
Annex II	Magnesium powder	7439-95-4	8104.30.00
Annex II	Magnesium nitrate hexahydrate; Mg(NO ₃) ₂ ·6H ₂ O	13446-18-9	2834.29.80
Annex II	Aluminium powder	7429-90-5	7603.10.00

Source: European Commission.

2.5. Anti-torture regulation

According to Article 1 of the Convention against Torture and Other Cruel, Inhuman or Degrading Treatment or Punishment, “Torture means any act by which severe pain or suffering, whether physical or mental, is intentionally inflicted on a person for such purposes as obtaining from that person or from a third person information or a confession, punishing that person for an act that either that person or a third person has committed or is suspected of having committed, or intimidating or coercing that person or a third person, or for any reason based on discrimination of any kind, when such pain or suffering is inflicted either by or at the instigation of, or with the consent or acquiescence of, a public official or other person acting in an official capacity”.

The EU aimed to control the export of torture items through Regulation (EU) No 2019/125⁴² of the European Parliament and of the Council issued on January 16, 2019. This regulation concerns the trade of goods that could be used for capital punishment, torture or other cruel, inhuman or degrading treatment or punishment.

Two annexes to the regulation focus on chemicals and their description is reported in Table 8 while Table 9 shows the chemicals under the regulation.

Table 8. Description of the anti-torture annexes concerning chemicals

Annex	Description
Annex III	Goods that have some practical use other than for the purpose of torture or other cruel, inhuman or degrading treatment or punishment Exports of any of the goods listed in Annex III of the Regulation generally require authorisation.
Annex IV	Goods which could be used for the execution of human beings. An export authorisation is required for the goods listed in Annex IV of the Regulation.

Source: European Commission

Recently, new chemicals have been added in the annexes of this regulation, by means of the amendment (EU) No 2025/928.⁴³

In 2019 the Council of the EU published Guidelines⁴⁴ with the intent of providing practical guidance to EU institutions and Member States, that can be used in their engagement with third countries as

⁴² Regulation (EU) No 2019/125 of the European Parliament and of the Council of 16 January 2019 concerning trade in certain goods which could be used for capital punishment, torture or other cruel, inhuman or degrading treatment or punishment, <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A02019R0125-20200527&qid=1610983638632>

⁴³ Commission Delegated Regulation (EU) 2025/928 of 21 May 2025 amending Regulation (EU) 2019/125, https://eur-lex.europa.eu/eli/reg_del/2025/928/oj/eng

⁴⁴ Guidelines on EU Policy Towards Third Countries on Torture and Other Cruel, Inhuman or Degrading Treatment or Punishment, https://www.eeas.europa.eu/sites/default/files/05_hr_guidelines_punishment_en.pdf

well as in multilateral human rights fora, to support ongoing efforts to eradicate torture and other ill-treatment worldwide.

Table 9. Chemicals subject to the anti-torture regulation, (EU) No 2019/125.

Reference	Chemical name	CAS number	CN code ¹
Annex III	Oleoresin capsicum; OC	8023-77-6	3301.90.30
Annex III	Oleoresin capsicum; OC	8023-77-6	1302.19.70
Annex III	Pelargonic acid vanillylamide; PAVA	2444-46-4	2939.79.90
Annex III	Thioacetone	4756-05-2	2930.90.95
Annex III	Allicin	539-86-6	2930.90.95
Annex III	Skatole	83-34-1	2933.99.20
Annex III	Cadaverine	462-94-2	2921.29.00
Annex III	Putrescine	110-60-1	2921.29.00
Annex III	Ammonium hydrosulfide	12124-99-1	2830.90.85
Annex III	Ethanethiol	75-08-1	2930.90.95
Annex III	Propanethiol	107-03-9	2930.90.95
Annex III	Isobutylthiol	513-44-0	2930.90.95
Annex III	Butanethiol	109-79-5	2930.90.95
Annex IV	Amobarbital	57-43-2	2933.53.90
Annex IV	Amobarbital sodium salt	64-43-7	2933.53.90
Annex IV	Pentobarbital	76-74-4	2933.53.90
Annex IV	Pentobarbital sodium salt	57-33-0	2933.53.90
Annex IV	Secobarbital	76-73-3	2933.53.90
Annex IV	Secobarbital sodium salt	309-43-3	2933.53.90
Annex IV	Thiopental	76-75-5	2933.53.90
Annex IV	Thiopental sodium salt	71-73-8	2933.53.90

¹ in bold new chemicals or new CN codes.

Source: European Commission.

2.6. Psychotropic and narcotic precursors (drug precursors)

The United Nations Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances adopted in Vienna on 19 December 1988⁴⁵ is part of the worldwide effort to combat illegal drugs.

In the EU the implementation of the UN convention is governed by Regulation (EC) No 111/2005 and its amendments⁴⁶, which lay down rules for the monitoring of trade between the Union and third countries in certain substances frequently used for the illicit manufacture of narcotic drugs and psychotropic substances (drug precursors) for the purpose of preventing the diversion of such substances.

Recently, new chemicals precursors have been added in the annex of this regulation, by means the amendments (EU) No 2024/1331⁴⁷ and 2025/1475⁴⁸.

Drug precursors are scheduled in three categories; their descriptions are reported in the Table 10. The list of chemicals is shown in Table 11.

Table 10. Description of the annexes to the Regulation (EC) No 111/2005.

Annex	Description
Category 1	It covers the most sensitive substances, from which illicit drugs can be produced most easily. Exports involving scheduled substances listed in Category 1 of the Annex, shall hold an export licence and also submit a pre-export notification to the competent authority.
Category 2	It covers less sensitive substances. Exports involving scheduled substances listed in Category 2 of the Annex, require a registration from EU authorities and, for certain destinations, require submitting a pre-export notification to the competent authority.
Category 3	It covers bulk chemicals that can have different types of uses in the manufacturing process. Exports involving scheduled substances listed in Category 3 of the Annex, require a registration from EU authorities and, for certain destinations, require submitting a pre-export notification to the competent authority.

Source: European Commission.

⁴⁵ The United Nations Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances, 1988, https://www.unodc.org/pdf/convention_1988_en.pdf

⁴⁶ Council Regulation (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Union and third countries in drug precursors, <https://eur-lex.europa.eu/eli/reg/2005/111/oj/eng>

⁴⁷ Commission Delegated Regulation (EU) No 2024/1331 of 28 February 2024 amending Regulation (EC) No 273/2004 of the European Parliament and of the Council and Council Regulation (EC) No 111/2005 as regards the inclusion of the drug precursor Isopropylidene (2-(3,4-methylenedioxyphenyl)acetyl)malonate (IMDPAM) and other substances in the list of scheduled substances, https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=OJ:L_202401331

⁴⁸ Commission Delegated Regulation (EU) No 2025/1475 of 21 May 2025 amending Regulation (EC) No 273/2004 of the European Parliament and of the Council and Council Regulation (EC) No 111/2005 as regards the inclusion of the drug precursors 4-piperidone and 1-boc-4-piperidone in the list of scheduled substances, https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=OJ:L_202501475

Table 11. Chemicals subject to the regulation on drug precursors, (EC) No 111/2005.

Reference	Chemical name	CAS number	CN code ¹
Annex I CAT. 1	Tert-butyl 4-oxopiperidine-1-carboxylate	79099-07-3	2933.39.99
Annex I CAT. 1	1-Phenyl-2-propanone	103-79-7	2914.31.00
Annex I CAT. 1	4-piperidone	41661-47-6	2933.39.99
Annex I CAT. 1	Diethyl (phenylacetyl) propanedioate; DEPAPD	20320-59-6	2918.30.00
Annex I CAT. 1	Methyl α -phenylacetoacetate; MAPA	16648-44-5	2918.30.00
Annex I CAT. 1	Ethyl α -phenylacetoacetate; EAPA	5413-05-8	2918.30.00
Annex I CAT. 1	2-methyl-3-phenyloxirane-2-carboxylic acid; BMK glycidic acid	25547-51-7	2918.99.90
Annex I CAT. 1	BMK methyl glycidate	80532-66-7	2918.99.90
Annex I CAT. 1	BMK ethyl glycidate	41232-97-7	2918.99.90
Annex I CAT. 1	BMK propyl glycidate	N.A.	2918.99.90
Annex I CAT. 1	BMK isopropyl glycidate	N.A.	2918.99.90
Annex I CAT. 1	BMK butyl glycidate	N.A.	2918.99.90
Annex I CAT. 1	BMK isobutyl glycidate	N.A.	2918.99.90
Annex I CAT. 1	BMK sec-butyl glycidate	N.A.	2918.99.90
Annex I CAT. 1	BMK tert-butyl glycidate	N.A.	2918.99.90
Annex I CAT. 1	N-Acetylanthranilic acid	89-52-1	2924.23.00
Annex I CAT. 1	α -phenylacetoacetamide; APAA	4433-77-6	2924.29.70
Annex I CAT. 1	α -phenylacetoacetonitrile; APAAN	4468-48-8	2926.40.00
Annex I CAT. 1	Isosafrole	120-58-1	2932.91.00
Annex I CAT. 1	3,4-Methylenedioxyphenyl-2-propanone; MDP2P	4676-39-5	2932.92.00
Annex I CAT. 1	Piperonal	120-57-0	2932.93.00
Annex I CAT. 1	Safrole	94-59-7	2932.94.00
Annex I CAT. 1	Methyl 3-oxo-2-(3,4-methylenedioxyphenyl)butanoate); MAMDPA	1369021-80-6	2932.99.00
Annex I CAT. 1	3-(1,3-benzodioxol-5-yl)-2-methyl-oxirane-2-carboxylic acid; PMK glycidic acid	2167189-50-4	2932.99.00
Annex I CAT. 1	PMK methyl glycidate	13605-48-6	2932.99.00
Annex I CAT. 1	PMK ethyl glycidate	28578-16-7	2932.99.00
Annex I CAT. 1	PMK propyl glycidate	N.A.	2932.99.00

Reference	Chemical name	CAS number	CN code ¹
Annex I CAT. 1	PMK isopropyl glycidate	N.A.	2932.99.00
Annex I CAT. 1	PMK butyl glycidate	N.A.	2932.99.00
Annex I CAT. 1	PMK isobutyl glycidate	N.A.	2932.99.00
Annex I CAT. 1	PMK sec-butyl glycidate	N.A.	2932.99.00
Annex I CAT. 1	PMK tert-butyl glycidate	N.A.	2932.99.00
Annex I CAT. 1	Isopropylidene (2-(3,4-methylenedioxyphenyl) acetyl) malonate; IMDPAM	N.A.	2932.99.00
Annex I CAT. 1	4-Anilino-N-phenethylpiperidine; ANPP	21409-26-7	2933.36.00
Annex I CAT. 1	N-Phenethyl-4-piperidone; NPP	39742-60-4	2933.37.00
Annex I CAT. 1	N-phenylpiperidin-4-amine (4-AP)	23056-29-3	2933.39.99
Annex I CAT. 1	Tert-butyl 4-anilinopiperidine-1-carboxylate (1-boc-4-AP)	125541-22-2	2933.39.99
Annex I CAT. 1	N-phenyl-N-(piperidin-4-yl) propanamide; norfentanyl	1609-66-1	2933.39.99
Annex I CAT. 1	Ephedrine	299-42-3	2939.41.00
Annex I CAT. 1	Pseudoephedrine	90-82-4	2939.42.00
Annex I CAT. 1	Norephedrine	14838-15-4	2939.44.00
Annex I CAT. 1	Ergometrine	60-79-7	2939.61.00
Annex I CAT. 1	Ergotamine	113-15-5	2939.62.00
Annex I CAT. 1	Lysergic acid	82-58-6	2939.63.00
Annex I CAT. 1	(1R,2S)-(-)-chloroephedrine	110925-64-9	2939.79.90
Annex I CAT. 1	(1S,2R)-(+)-chloroephedrine	1384199-95-4	2939.79.90
Annex I CAT. 1	(1S,2S)-(+)-chloropseudoephedrine	73393-61-0	2939.79.90
Annex I CAT. 1	(1R,2R)-(-)-chloropseudoephedrine	771434-80-1	2939.79.90
Annex I CAT. 2	Red phosphorus	7723-14-0	2804.70.10
Annex I CAT. 2	Acetic anhydride	108-24-7	2915.24.00
Annex I CAT. 2	Phenylacetic acid	103-82-2	2916.34.00
Annex I CAT. 2	Anthranilic acid	118-92-3	2922.43.00
Annex I CAT. 2	Piperidine	110-89-4	2933.32.00
Annex I CAT. 2	Potassium permanganate; KMnO ₄	7722-64-7	2841.61.00
Annex I CAT. 3	Hydrogen chloride; HCl	7647-01-0	2806.10.00

Reference	Chemical name	CAS number	CN code¹
Annex I CAT. 3	Sulphuric acid; H ₂ SO ₄	7664-93-9	2807.00.00
Annex I CAT. 3	Toluene	108-88-3	2902.30.00
Annex I CAT. 3	Diethyl ether	60-29-7	2909.11.00
Annex I CAT. 3	Acetone	67-64-1	2914.11.00
Annex I CAT. 3	Methyl ethyl ketone; MEK	78-93-3	2914.12.00

¹ in bold new chemicals or new CN codes.

Source: European Commission.

2.7. Hazardous chemicals (PIC regulation)

The Regulation (EU) No 649/2012⁴⁹ also known as Prior Informed Consent (PIC) Regulation, is the legislative tool of the European Parliament and of the Council to regulate the export and import of hazardous chemicals. It applies to industrial chemicals and pesticides (including biocides) that are banned or severely restricted for health or environmental reasons. It places obligations on companies that wish to export these chemicals to non-EU countries. The PIC Regulation implements within the EU the Rotterdam Convention⁵⁰ on the Prior Informed Consent procedure for certain Hazardous Chemicals and Pesticides in international trade.

The PIC Regulation entered into operation on 1 March 2014. From this date, the European Chemicals Agency (ECHA)⁵¹ is responsible for the administrative and technical tasks related to the new Regulation. The PIC Regulation covers the following chemicals:

- Certain hazardous chemicals that are subject to the prior informed consent procedure under the Convention (the 'PIC procedure');
- Certain hazardous chemicals that are banned or severely restricted within the Union or a Member State;
- Chemicals when exported in so far as their classification, labelling and packaging are concerned.

The regulation differentiates chemicals in two annexes, Annex I (restricted) and Annex V (prohibited), but in its turn Annex I is split in three parts as described in Table 12.

Table 12. Description of the PIC regulation annexes.

Annex	Description
Annex I Part 1	Chemicals banned or severely restricted within the EU in a subcategory of a Convention use category
Annex I Part 2	Chemicals banned or severely restricted within the EU in a Convention use category
Annex I Part 3	Chemicals that are subject to the prior informed consent (PIC) procedure under the Rotterdam Convention
Annex V	Chemicals prohibited within the EU and banned from export

Source: European Commission.

⁴⁹ Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals, <https://eur-lex.europa.eu/eli/reg/2012/649/oj/eng>

⁵⁰ Rotterdam Convention, <http://www.pic.int/>

⁵¹ European Chemicals Agency-Legislation, <https://echa.europa.eu/regulations/prior-informed-consent/understanding-pic>

Recently, new chemicals have been added in the annexes of this regulation, by means of the amendments (EU) No 2023/1656⁵² and 2024/3199⁵³. Table 13 provides the list of the substances pointed out by the PIC Regulation.

The ECHA published a guidance⁵⁴ with the aim of assisting, providing assistance and technical and scientific guidance to industry, economic operators and authorities on complying with their obligations under the PIC Regulation.

Table 13. Chemicals subject to PIC Regulation on hazardous chemicals, (EU) No 649/2012.

Reference	Chemical name	CAS number	CN code ¹
Annex I Part 1	1,1,1,2-Tetrachloroethane	630-20-6	2903.19.00
Annex I Part 1	1,1,1-Trichloroethane	71-55-6	2903.19.00
Annex I Part 1	1,1,2,2-Tetrachloroethane	79-34-5	2903.19.00
Annex I Part 1	1,1,2-Trichloroethane	79-00-5	2903.19.00
Annex I Part 1	1,1-Dichloroethene	75-35-4	2903.29.00
Annex I Part 1	Abamectin	71751-41-2	3808.99.90
Annex I Part 1	Acifluorfen	50594-66-6	2918.99.90
Annex I Part 1	Alpha-cypermethrin	67375-30-8	2926.90.70
Annex I Part 1	Ametryn	834-12-8	2933.69.80
Annex I Part 1	Anthracene oil	90640-80-5	2707.99.20
Annex I Part 1	Bensultap	17606-31-4	2930.90.95
Annex I Part 1	Benzene crude	71-43-2	2707.10.00
Annex I Part 1	Benzene pure	71-43-2	2902.20.00
Annex I Part 1	Bromadiolone	28772-56-7	2932.20.90
Annex I Part 1	Cadmium Nitrate; Cd(NO ₃) ₂	10325-94-7	2834.29.20
Annex I Part 1	Cadmium oxide; CdO	1306-19-0	2825.90.60
Annex I Part 1	Cadmium sulphate; CdSO ₄	7790-84-3	2833.29.20

⁵² Commission Delegated Regulation (EU) 2023/1656 of 16 June 2023 amending Regulation (EU) No 649/2012 of the European Parliament and of the Council as regards the listing of pesticides and industrial chemicals, <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32023R1656>

⁵³ Commission Delegated Regulation (EU) 2024/3199 of 15 October 2024 amending Regulation (EU) No 649/2012 of the European Parliament and of the Council as regards the listing of pesticides and industrial chemicals, https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=OJ:L_202403199

⁵⁴ Guidance for implementation of Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals, <https://echa.europa.eu/guidance-documents/guidance-on-PIC>

Reference	Chemical name	CAS number	CN code ¹
Annex I Part 1	Calciferol	50-14-6	2936.29.00
Annex I Part 1	Carbendazim	10605-21-7	2933.99.80
Annex I Part 1	Carbon tetrachloride	56-23-5	2903.14.00
Annex I Part 1	Cartap	15263-53-3	2930.20.00
Annex I Part 1	Chinomethionat	2439-01-2	2934.99.90
Annex I Part 1	Chlormephos	24934-91-6	2930.90.95
Annex I Part 1	Chloroform	67-66-3	2903.13.00
Annex I Part 1	Chlorthal-dimethyl	1861-32-1	2917.39.85
Annex I Part 1	Cholecalciferol	67-97-0	2936.29.00
Annex I Part 1	Cis-1,3-dichloropropene	10061-01-5	2903.29.00
Annex I Part 1	Coal tar distillate	65996-91-0	2707.99.19
Annex I Part 1	Coal tar distillate	65996-91-0	3807.00.90
Annex I Part 1	Coal tar distillate fraction	84650-04-4	2707.40.00
Annex I Part 1	Coal tar distillate fraction	84650-04-4	2707.50.00
Annex I Part 1	Coumafuryl	117-52-2	2932.20.90
Annex I Part 1	Creosote oil	61789-28-4	2707.91.00
Annex I Part 1	Creosote oil	8001-58-9	2707.91.00
Annex I Part 1	Creosote oil fraction	90640-84-9	2707.91.00
Annex I Part 1	Crimidine	535-89-7	2933.59.95
Annex I Part 1	Cyanazine	21725-46-2	2933.69.80
Annex I Part 1	Cyhalothrine	68085-85-8	2926.90.70
Annex I Part 1	Di- μ -oxo-di-n-butylstannio-hydroxyborane; DBB	75113-37-0	2931.90.00
Annex I Part 1	Dibutyltin diacetate	1067-33-0	2931.90.00
Annex I Part 1	Dibutyltin dichloride	683-18-1	2931.90.00
Annex I Part 1	Dibutyltin dilaurate	77-58-7	2931.90.00
Annex I Part 1	Dibutyltin oxide	818-08-6	2931.90.00
Annex I Part 1	Didecyldimethylammonium chloride	7173-51-5	2923.90.00
Annex I Part 1	Difenacoum	56073-07-5	2932.20.90
Annex I Part 1	Dinobuton	973-21-7	2920.90.10

Reference	Chemical name	CAS number	CN code ¹
Annex I Part 1	Diocetyltn	3542-36-7	2931.90.00
Annex I Part 1	Diocetyltn diacetate	17586-94-6	2931.90.00
Annex I Part 1	Diocetyltn dilaurate	3648-18-8	2931.90.00
Annex I Part 1	Diocetyltn maleate	16091-18-2	2931.90.00
Annex I Part 1	Diocetyltn oxide	870-08-6	2931.90.00
Annex I Part 1	Ethion	563-12-2	2930.90.95
Annex I Part 1	Fenpropathrin	39515-41-8	2926.90.70
Annex I Part 1	Fenvalerate	51630-58-1	2926.90.70
Annex I Part 1	Flurenol	467-69-6	2918.19.98
Annex I Part 1	Furathiocarb	65907-30-4	2932.99.00
Annex I Part 1	Hexachloroethane	67-72-1	2903.19.00
Annex I Part 1	Imidaclopid	138261-41-3	2933.39.99
Annex I Part 1	Iminoctadine	13516-27-3	2925.29.00
Annex I Part 1	Isoxathion	18854-01-8	2934.99.90
Annex I Part 1	Lead	7439-92-1	7801.10.00
Annex I Part 1	Lead	7439-92-1	7804.20.00
Annex I Part 1	Lead 2,4,6-trinitrobenzene-1,3-diolate	15245-44-0	2908.99.00
Annex I Part 1	Lead carbonate; PbCO ₃	598-63-0	2836.99.17
Annex I Part 1	Lead chromate; PbCrO ₄	7758-97-6	2841.50.00
Annex I Part 1	Lead diacetate	301-04-2	2915.29.00
Annex I Part 1	Lead diazide	13424-46-9	2850.00.60
Annex I Part 1	Lead hexafluorosilicate; PbSiF ₆	25808-74-6	2826.90.80
Annex I Part 1	Lead hydrogenarsenate; PbHAsO ₄	7784-40-9	2842.90.80
Annex I Part 1	Lead sulphate; PbSO ₄	7446-14-2	2833.29.60
Annex I Part 1	Maleic hydrazide salts other than choline, potassium and sodium salts	5716-15-4	2933.99.80
Annex I Part 1	1,2-dihydropyridazine-3,6-dione, compound with 2,2'-iminodiethanol (1:1)	5716-15-4	2933.99.80
Annex I Part 1	1,2-dihydropyridazine-3,6-dione, compound with 2-aminoethanol	42489-17-8	2933.99.80

Reference	Chemical name	CAS number	CN code ¹
Annex I Part 1	1,2-dihydropyridazine-3,6-dione, compound with diethylamine (1:1)	36518-59-9	2933.99.80
Annex I Part 1	1,2-dihydropyridazine-3,6-dione, compound with dimethylamine (1:1)	65445-74-1	2933.99.80
Annex I Part 1	3,6-Pyridazinedione,1,2-dihydro-ammonium salt	51137-11-2	2933.99.80
Annex I Part 1	Malathion	121-75-5	2930.90.95
Annex I Part 1	Metam-sodium	137-42-8	2930.20.00
Annex I Part 1	Methidathion	950-37-8	2934.99.90
Annex I Part 1	Metoxuron	19937-59-8	2924.21.00
Annex I Part 1	Monolinuron	1746-81-2	2928.00.90
Annex I Part 1	Monuron	150-68-5	2924.21.00
Annex I Part 1	Omethoate	1113-02-6	2930.90.95
Annex I Part 1	Pebulate	1114-71-2	2930.20.00
Annex I Part 1	Pentachloroethane	76-01-7	2903.19.00
Annex I Part 1	Permethrin	52645-53-1	2916.20.00
Annex I Part 1	Pigment white 1	1319-46-6	3206.49.70
Annex I Part 1	Pigment white 30	7446-27-7	3206.49.70
Annex I Part 1	Pigment white 30	7446-27-7	2835.29.90
Annex I Part 1	Pigment yellow 34	1344-37-2	3206.20.00
Annex I Part 1	Propham	122-42-9	2924.29.70
Annex I Part 1	Propiconazole	60207-90-1	2934.99.90
Annex I Part 1	Scilliroside	507-60-8	2938.90.90
Annex I Part 1	Sec-butylamine	13952-84-6	2921.19.99
Annex I Part 1	Strychnine	57-24-9	2939.79.90
Annex I Part 1	Tar acid, coal	65996-85-2	2707.99.80
Annex I Part 1	Tar oil	122384-78-5	3807.00.90
Annex I Part 1	Terbufos	13071-79-9	2930.90.95
Annex I Part 1	Thallium sulphate; Tl ₂ SO ₄	7446-18-6	2833.29.80
Annex I Part 1	Thiocyclam	31895-22-4	2934.99.90
Annex I Part 1	Triazophos	24017-47-8	2933.99.80

Reference	Chemical name	CAS number	CN code ¹
Annex I Part 1	Trichlorobenzene	120-82-1	2903.99.80
Annex I Part 1	Tridemorph	24602-86-6	2934.99.90
Annex I Part 1	Triflumuron	64628-44-0	2924.21.00
Annex I Part 1	Tris-aziridinyl-phosphin oxide	545-55-1	2933.99.80
Annex I Part 1	Vamidothion	2275-23-2	2930.90.95
Annex I Part 1	Warfarin	81-81-2	2932.20.90
Annex I Part 1	Wood creosote	8021-39-4	3807.00.90
Annex I Part 1	Zineb	12122-67-7	3824.99.93
Annex I Parts 1 & 2	1-bromopropane (n-propyl bromide)	106-94-5	2903.69.19
Annex I Parts 1 & 2	1,2-Benzenedicarboxylic acid, di C6-8-branched alkyl esters, C7-rich	71888-89-6	2917.34.00
Annex I Parts 1 & 2	1,2-Benzenedicarboxylic acid, di C7-11-branched and linear alkyl esters	68515-42-4	2917.34.00
Annex I Parts 1 & 2	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	2917.34.00
Annex I Parts 1 & 2	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	2917.34.00
Annex I Parts 1 & 2	1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68648-93-1	3824.99.92
Annex I Parts 1 & 2	1,2-benzenedicarboxylic acid, di C6-10-alkyl esters	68515-51-5	3824.99.92
Annex I Parts 1 & 2	1,3-dichloropropene	542-75-6	2903.29.00
Annex I Parts 1 & 2	2-naphthylamine	91-59-8	2921.45.00
Annex I Parts 1 & 2	2-naphthylammonium acetate	553-00-4	2921.45.00
Annex I Parts 1 & 2	2-Naphthyloxyacetic acid	120-23-0	2918.99.90
Annex I Parts 1 & 2	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	2904.20.00
Annex I Parts 1 & 2	3-decen-2-one	10519-33-2	2914.19.90
Annex I Parts 1 & 2	4-aminobiphenyl	92-67-1	2921.49.00
Annex I Parts 1 & 2	4-aminobiphenyl hydrochloride	2113-61-3	2921.49.00
Annex I Parts 1 & 2	4-nitrobiphenyl	92-93-3	2904.20.00
Annex I Parts 1 & 2	4-nonylphenol	104-40-5	2907.13.00
Annex I Parts 1 & 2	4-nonylphenol branched	84852-15-3	2907.13.00

Reference	Chemical name	CAS number	CN code ¹
Annex I Parts 1 & 2	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	2921.59.90
Annex I Parts 1 & 2	5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	2904.20.00
Annex I Parts 1 & 2	Acephate	30560-19-1	2930.90.95
Annex I Parts 1 & 2	Acetochlor	34256-82-1	2924.29.70
Annex I Parts 1 & 2	Acrolein	107-02-8	2912.19.00
Annex I Parts 1 & 2	Amitraz	33089-61-1	2925.29.00
Annex I Parts 1 & 2	Amitrole	61-82-5	2933.99.80
Annex I Parts 1 & 2	Anthraquinone	84-65-1	2914.61.00
Annex I Parts 1 & 2	Asbestos Fibres	1332-21-4	2524.90.00
Annex I Parts 1 & 2	Asulam	3337-71-1	2935.90.90
Annex I Parts 1 & 2	Asulam-sodium	2302-17-2	2935.90.90
Annex I Parts 1 & 2	Atrazine	1912-24-9	2933.69.10
Annex I Parts 1 & 2	Azimsulfuron	120162-55-2	2935.90.90
Annex I Parts 1 & 2	Azinphos-ethyl	2642-71-9	2933.99.80
Annex I Parts 1 & 2	Azocyclotin	41083-11-8	2933.99.80
Annex I Parts 1 & 2	b-cypermethrin	65731-84-2	2926.90.70
Annex I Parts 1 & 2	Benalaxyl	71626-11-4	2924.29.70
Annex I Parts 1 & 2	Bendiocarb	22781-23-3	2932.99.00
Annex I Parts 1 & 2	Benfluralin	1861-40-1	2921.43.00
Annex I Parts 1 & 2	Benfuracarb	82560-54-1	2932.99.00
Annex I Parts 1 & 2	Benthiavalicarb	413615-35-7	2934.20.80
Annex I Parts 1 & 2	Benthiavalicarb-isopropyl	177406-68-7	2934.20.80
Annex I Parts 1 & 2	Benzidine	92-87-5	2921.59.90
Annex I Parts 1 & 2	Benzidine acetate	36341-27-2	2921.59.90
Annex I Parts 1 & 2	Benzidine hydrochloride	531-85-1	2921.59.90
Annex I Parts 1 & 2	Benzidine sulphate	536-86-2	2921.59.90
Annex I Parts 1 & 2	Benzyl butyl phthalate	85-68-7	2917.34.00
Annex I Parts 1 & 2	Beta-cyfluthrin	1820573-27-0	2926.90.70
Annex I Parts 1 & 2	Bifenthrin	82657-04-3	2916.20.00

Reference	Chemical name	CAS number	CN code ¹
Annex I Parts 1 & 2	Bis(2-methoxyethyl) phthalate	117-82-8	2917.34.00
Annex I Parts 1 & 2	Bitertanol	55179-31-2	2933.99.80
Annex I Parts 1 & 2	Borate (2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium (1:2)	90568-23-3	2840.30.00
Annex I Parts 1 & 2	Borate (2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium, hydrate (1:2:6)	125022-34-6	2840.30.00
Annex I Parts 1 & 2	Bromoxynil (and its butyryl, heptanoyl and octanoyl esters)	1689-84-5	2926 90 70
Annex I Parts 1 & 2	2,6-dibromo-4-cyanophenyl butyrate	3861-41-4	2926 90 70
Annex I Parts 1 & 2	Bromoxynil heptanoate	56634-95-8	2926 90 70
Annex I Parts 1 & 2	Bromoxynil octanoate	1689-99-2	2926 90 70
Annex I Parts 1 & 2	Butralin	33629-47-9	2921.49.00
Annex I Parts 1 & 2	Cadmium powder	7440-43-9	8112.69.10
Annex I Parts 1 & 2	Cadusafos	95465-99-9	2930.90.95
Annex I Parts 1 & 2	Calcium chlorate; Ca(ClO ₃) ₂	10137-74-3	2829.19.00
Annex I Parts 1 & 2	Calcium phosphide	1305-99-3	2853.90.90
Annex I Parts 1 & 2	Carbamic acid, (4-methyl-1,3-phenylene) bis-, bis[2-ethyl[(perfluoro-C4-8-alkyl) sulfonyl] amino] ethyl] ester	68081-83-4	3824.99.92
Annex I Parts 1 & 2	Carbaryl	63-25-2	2924.29.70
Annex I Parts 1 & 2	Carbetamide	16118-49-3	2924.29.70
Annex I Parts 1 & 2	Carbosulfan	55285-14-8	2932.99.00
Annex I Parts 1 & 2	Carboxin	5234-68-4	2934.99.90
Annex I Parts 1 & 2	Chlorfenapyr	122453-73-0	2933.99.80
Annex I Parts 1 & 2	Chlorfenvinphos	470-90-6	2919.90.00
Annex I Parts 1 & 2	Chloridazon	1698-60-8	2933.99.80
Annex I Parts 1 & 2	Chlorophene	120-32-1	2908.19.00
Annex I Parts 1 & 2	Chloropicrin	76-06-2	2904.91.00
Annex I Parts 1 & 2	Chlorothalonil	1897-45-6	2926.90.70
Annex I Parts 1 & 2	Chlorpropham	101-21-3	2924.29.70
Annex I Parts 1 & 2	Chlorpyrifos	2921-88-2	2933.39.99
Annex I Parts 1 & 2	Chlorpyrifos-methyl	5598-13-0	2933.39.99

Reference	Chemical name	CAS number	CN code ¹
Annex I Parts 1 & 2	Chlorsulfuron	64902-72-3	2935.90.90
Annex I Parts 1 & 2	Chlorthal-dimethyl	1861-32-1	2917.39.85
Annex I Parts 1 & 2	Chlozolinate	84332-86-5	2934.99.90
Annex I Parts 1 & 2	Cinidon-ethyl	142891-20-1	2925.19.95
Annex I Parts 1 & 2	Clofentezine	74115-24-5	2933.99.80
Annex I Parts 1 & 2	Clothianidin	210880-92-5	2934.10.00
Annex I Parts 1 & 2	Chrysotile	12001-29-5	2524.90.00
Annex I Parts 1 & 2	Chrysotile asbestos	132207-32-0	2524.90.00
Annex I Parts 1 & 2	Cyanamide	420-04-2	2853.90.90
Annex I Parts 1 & 2	Cybutryne	28159-98-0	2933.69.80
Annex I Parts 1 & 2	Cyclanilide	113136-77-9	2924.29.70
Annex I Parts 1 & 2	Cyfluthrin	68359-37-5	2926.90.70
Annex I Parts 1 & 2	Cyhexatin	13121-70-5	2931.90.00
Annex I Parts 1 & 2	Cyproconazole	94361-06-5	2933.99.80
Annex I Parts 1 & 2	d-Allethrin	231937-89-6	2916.20.00
Annex I Parts 1 & 2	Desmedipham	13684-56-5	2924.29.70
Annex I Parts 1 & 2	Diarsenic pentaoxide; As ₂ O ₅	1303-28-2	2811.29.90
Annex I Parts 1 & 2	Diazinon	333-41-5	2933.59.10
Annex I Parts 1 & 2	Dichlobenil	1194-65-6	2926.90.70
Annex I Parts 1 & 2	Dichlorvos	62-73-7	2919.90.00
Annex I Parts 1 & 2	Dicloran	99-30-9	2921.42.00
Annex I Parts 1 & 2	Dihexyl phthalate	84-75-3	2917.34.00
Annex I Parts 1 & 2	Diisobutyl phthalate	84-69-5	2917.34.00
Annex I Parts 1 & 2	Diisopentyl phthalate	605-50-5	2917.34.00
Annex I Parts 1 & 2	Dimethenamid	87674-68-8	2934.99.90
Annex I Parts 1 & 2	Dimethoate	60-51-5	2930.90.95
Annex I Parts 1 & 2	Dimethomorph	110488-70-5	2934.99.90
Annex I Parts 1 & 2	Dimoxystrobin	149961-52-4	2928.00.90
Annex I Parts 1 & 2	Diniconazole-M	83657-18-5	2933.99.80

Reference	Chemical name	CAS number	CN code ¹
Annex I Parts 1 & 2	Dinoterb	1420-07-1	2908.99.00
Annex I Parts 1 & 2	Dipentyl phthalate	131-18-0	2917.34.00
Annex I Parts 1 & 2	Diphenylamine	122-39-4	2921.44.00
Annex I Parts 1 & 2	Diquat	2764-72-9	2933.99.80
Annex I Parts 1 & 2	Diquat dibromide	85-00-7	2933.99.80
Annex I Parts 1 & 2	Diuron	330-54-1	2924.21.00
Annex I Parts 1 & 2	Empenthrin	54406-48-3	2916.20.00
Annex I Parts 1 & 2	Epoxiconazole	135319-73-2	2934.99.90
Annex I Parts 1 & 2	Epoxiconazole	133855-98-8	2934.99.90
Annex I Parts 1 & 2	Esbiothrin	260359-57-7	2916.20.00
Annex I Parts 1 & 2	Ethalfuralin	55283-68-6	2921.43.00
Annex I Parts 1 & 2	Ethametsulfuron-methyl	97780-06-8	2935.90.90
Annex I Parts 1 & 2	Ethoprophos	13194-48-4	2930.90.95
Annex I Parts 1 & 2	Ethoxyquin	91-53-2	2933.49.90
Annex I Parts 1 & 2	Ethoxysulfuron	126801-58-9	2933.59.95
Annex I Parts 1 & 2	Etridiazole	2593-15-9	2934.99.90
Annex I Parts 1 & 2	Famoxadone	131807-57-3	2934.99.90
Annex I Parts 1 & 2	Fenamidone	161326-34-7	2933.29.90
Annex I Parts 1 & 2	Fenamiphos	22224-92-6	2930.90.95
Annex I Parts 1 & 2	Fenarimol	60168-88-9	2933.59.95
Annex I Parts 1 & 2	Fenbuconazole	114369-43-6	2933.99.80
Annex I Parts 1 & 2	Fenbutatin oxide	13356-08-6	2931.90.00
Annex I Parts 1 & 2	Fenitrothion	122-14-5	2920.19.00
Annex I Parts 1 & 2	Fenoxycarb	72490-01-8	2924.29.70
Annex I Parts 1 & 2	Fenpropimorph	67564-91-4	2934.99.90
Annex I Parts 1 & 2	Fenthion	55-38-9	2930.90.95
Annex I Parts 1 & 2	Fentin acetate	900-95-8	2931.90.00
Annex I Parts 1 & 2	Fentin hydroxide	76-87-9	2931.90.00
Annex I Parts 1 & 2	Ferbam	14484-64-1	2930.20.00

Reference	Chemical name	CAS number	CN code ¹
Annex I Parts 1 & 2	Fipronil	120068-37-3	2933.19.90
Annex I Parts 1 & 2	Flufenoxuron	101463-69-8	2919.90.00
Annex I Parts 1 & 2	Flupyrsulfuron	150315-10-9	2935.90.90
Annex I Parts 1 & 2	Flupyrsulfuron-methyl; DPX KE 459	144740-53-4	2935.90.90
Annex I Parts 1 & 2	Flupyrsulfuron-methyl-sodium	144740-54-5	2935.90.90
Annex I Parts 1 & 2	Fluquinconazole	136426-54-5	2933.59.95
Annex I Parts 1 & 2	Flurprimidol	56425-91-3	2933.59.95
Annex I Parts 1 & 2	Flurtamone	96525-23-4	2932.19.00
Annex I Parts 1 & 2	Flusilazole	85509-19-9	2933.99.80
Annex I Parts 1 & 2	Fuberidazole	3878-19-1	2934.99.90
Annex I Parts 1 & 2	Glufosinate	51276-47-2	2931.49.80
Annex I Parts 1 & 2	Glufosinate-ammonium	77182-82-2	2931.49.80
Annex I Parts 1 & 2	Guazatine	108173-90-6	3808.99.90
Annex I Parts 1 & 2	Guazatine acetate	115044-19-4	3808.99.90
Annex I Parts 1 & 2	Hexazinone	51235-04-2	2933.69.80
Annex I Parts 1 & 2	Indolylacetic acid	87-51-4	2933.99.80
Annex I Parts 1 & 2	Indoxacarb	173584-44-6	2934.99.90
Annex I Parts 1 & 2	Indoxacarb	144171-61-9	2934.99.90
Annex I Parts 1 & 2	loxynil	1689-83-4	2926.90.70
Annex I Parts 1 & 2	loxynil octanoate	3861-47-0	2926.90.70
Annex I Parts 1 & 2	Ipconazole	125225-28-7	2933.99.80
Annex I Parts 1 & 2	Ipconazole CT-Type	115580-69-6	2933.99.80
Annex I Parts 1 & 2	Ipconazole CT-Type	115937-89-8	2933.99.80
Annex I Parts 1 & 2	Iprodione	36734-19-7	2933.21.00
Annex I Parts 1 & 2	Isononylphenol	11066-49-2	2907.13.00
Annex I Parts 1 & 2	Isononylphenol ethoxilated	37205-87-1	3402.13.00
Annex I Parts 1 & 2	Isoproturon	34123-59-6	2924.21.00
Annex I Parts 1 & 2	Isopyrazam	881685-58-1	2933.19.90
Annex I Parts 1 & 2	Linuron	330-55-2	2928.00.90

Reference	Chemical name	CAS number	CN code ¹
Annex I Parts 1 & 2	Lufenuron	103055-07-8	2924.21.00
Annex I Parts 1 & 2	Maleic hydrazide	123-33-1	2933.99.80
Annex I Parts 1 & 2	Maleic hydrazide pcholine salt	61167-10-0	2933.99.80
Annex I Parts 1 & 2	Maleic hydrazide potassium salt	51542-52-0	2933.99.80
Annex I Parts 1 & 2	Maleic hydrazide sodium salt	28330-26-9	2933.99.80
Annex I Parts 1 & 2	Mancozeb	8018-01-7	3808.92.30
Annex I Parts 1 & 2	Maneb	12427-38-2	3824.99.93
Annex I Parts 1 & 2	Mecoprop	7085-19-0	2918.99.90
Annex I Parts 1 & 2	Mecoprop	93-65-2	2918.99.90
Annex I Parts 1 & 2	Mepanipyrim	110235-47-7	2933.59.95
Annex I Parts 1 & 2	Methiocarb	2032-65-7	2930.90.95
Annex I Parts 1 & 2	Methomyl	16752-77-5	2930.90.95
Annex I Parts 1 & 2	Methyl bromide	74-83-9	2903.61.00
Annex I Parts 1 & 2	Methylene dithiocyanate	6317-18-6	2930.90.95
Annex I Parts 1 & 2	Methyl-parathion	298-00-0	2920.11.00
Annex I Parts 1 & 2	Metiram	9006-42-2	3808.92.30
Annex I Parts 1 & 2	Metosulam	139528-85-1	2935.90.30
Annex I Parts 1 & 2	Molinate	2212-67-1	2933.99.80
Annex I Parts 1 & 2	Monomethyl-dibromo-diphenyl methane; DBBT	99688-47-8	2903.99.80
Annex I Parts 1 & 2	Monomethyl-dichloro-diphenyl methane; Ugilec 121 or Ugilec 21	85705-05-1	2903.99.80
Annex I Parts 1 & 2	Monomethyl-Tetrachlorodiphenyl methane; Ugilec 141	76253-60-6	2903.99.80
Annex I Parts 1 & 2	Myclobutanil	88671-89-0	2933.99.80
Annex I Parts 1 & 2	n-pentyl-isopentyl phthalate	776297-69-9	2917.34.00
Annex I Parts 1 & 2	Naled	300-76-5	2919.90.00
Annex I Parts 1 & 2	Naphthalen-2-amine monohydrochloride	612-52-2	2921.45.00
Annex I Parts 1 & 2	Nicotine	54-11-5	2939.79.10
Annex I Parts 1 & 2	Nitrofen	1836-75-5	2909.30.90
Annex I Parts 1 & 2	Nonylpheno branchedl ethoxilated	26027-38-3	3402.13.00

Reference	Chemical name	CAS number	CN code ¹
Annex I Parts 1 & 2	Nonylphenol	25154-52-3	2907.13.00
Annex I Parts 1 & 2	Nonylphenol branched	90481-04-2	2907.13.00
Annex I Parts 1 & 2	Nonylphenol branched ethoxilated	68412-54-4	3402.13.00
Annex I Parts 1 & 2	Nonylphenol ethoxilated	127087-87-0	3402.13.00
Annex I Parts 1 & 2	Nonylphenol ethoxilated; nonoxinol	9016-45-9	3402.13.00
Annex I Parts 1 & 2	Octabromodiphenyl ether	32536-52-0	2909.30.38
Annex I Parts 1 & 2	Orthosulfamuron	213464-77-8	2933.59.95
Annex I Parts 1 & 2	Oxadiargyl	39807-15-3	2934.99.90
Annex I Parts 1 & 2	Oxadiazon	19666-30-9	2934.99.90
Annex I Parts 1 & 2	Oxamyl	23135-22-0	2930.90.95
Annex I Parts 1 & 2	Oxasulfuron	144651-06-9	2935.90.90
Annex I Parts 1 & 2	Oxydemeton-methyl	301-12-2	2925.19.95
Annex I Parts 1 & 2	Paraquat	4685-14-7	2933.39.99
Annex I Parts 1 & 2	Paraquat dichloride	1910-42-5	2933.39.99
Annex I Parts 1 & 2	Paraquat dimethylsulfate	2074-50-2	2933.39.99
Annex I Parts 1 & 2	Pencycuron	66063-05-6	2924.21.00
Annex I Parts 1 & 2	Penflufen	494793-67-8	2933.19.90
Annex I Parts 1 & 2	Perboric acid (HBO(O2)), sodium salt, tetrahydrate	10486-00-7	2840.30.00
Annex I Parts 1 & 2	Perboric acid (H3BO2(O2)), monosodium salt trihydrate	13517-20-9	2840.30.00
Annex I Parts 1 & 2	Perboric acid, sodium salt	11138-47-9	2840.30.00
Annex I Parts 1 & 2	Perboric acid, sodium salt, tetrahydrate	37244-98-7	2840.30.00
Annex I Parts 1 & 2	Phosalone	2310-17-0	2934.99.90
Annex I Parts 1 & 2	Phosmet	732-11-6	2930.90.95
Annex I Parts 1 & 2	Picoxystrobin	117428-22-5	2933.39.99
Annex I Parts 1 & 2	Potassium 2,3,4,5-tetrachloro-6-[[[3- [[[(heptadecafluorooctyl) sulphonyl]oxy]phenyl]amino]carbonyl]benzoate	57589-85-2	2924.29.70
Annex I Parts 1 & 2	Potassium chlorate; KClO ₃	3811-04-9	2829.19.00
Annex I Parts 1 & 2	Prochloraz	67747-09-5	2933.29.90
Annex I Parts 1 & 2	Procymidone	32809-16-8	2925.19.95

Reference	Chemical name	CAS number	CN code ¹
Annex I Parts 1 & 2	Profenofos	41198-08-7	2930.90.95
Annex I Parts 1 & 2	Profoxydim	139001-49-3	2934.99.90
Annex I Parts 1 & 2	Propachlor	1918-16-7	2924.29.70
Annex I Parts 1 & 2	Propanil	709-98-8	2924.29.70
Annex I Parts 1 & 2	Propargite	2312-35-8	2920.90.70
Annex I Parts 1 & 2	Propineb	12071-83-9	2930.20.00
Annex I Parts 1 & 2	Propineb (ISO); polymeric zinc propylenebis (dithiocarbamate)	9016-72-2	3808.92.30
Annex I Parts 1 & 2	Propisochlor	86763-47-5	2924.29.70
Annex I Parts 1 & 2	Pymetrozine	123312-89-0	2933.69.80
Annex I Parts 1 & 2	Pyrazophos	13457-18-6	2933.59.95
Annex I Parts 1 & 2	Quinoclamine	2797-51-5	2922.39.00
Annex I Parts 1 & 2	Quinoxifen	124495-18-7	2933.49.90
Annex I Parts 1 & 2	Quintozene	82-68-8	2904.99.00
Annex I Parts 1 & 2	Rotenone	83-79-4	2932.99.00
Annex I Parts 1 & 2	S-metolachlor	87392-12-9	2924.29.70
Annex I Parts 1 & 2	Silver chlorate; AgClO ₃	7783-92-8	2843.29.00
Annex I Parts 1 & 2	Silver copper zeolite	130328-19-7	2843.29.00
Annex I Parts 1 & 2	Silver sodium hydrogen zirconium phosphate	265647-11-8	2843.29.00
Annex I Parts 1 & 2	Silver zeolite	130328-18-6	2843.29.00
Annex I Parts 1 & 2	Simazine	122-34-9	2933.69.10
Annex I Parts 1 & 2	Sodium chlorate; NaClO ₃	7775-09-9	2829.11.00
Annex I Parts 1 & 2	Sodium perborate	15120-21-5	2840.30.00
Annex I Parts 1 & 2	Sodium perborate monohydrate	10332-33-9	2840.30.00
Annex I Parts 1 & 2	Sodium peroxometaborate	7632-04-4	2840.30.00
Annex I Parts 1 & 2	Spirodiclofen	148477-71-8	2932.20.90
Annex I Parts 1 & 2	Spirotetramat	203313-25-1	2933.79.00
Annex I Parts 1 & 2	Tecnazene	117-18-0	2904.99.00
Annex I Parts 1 & 2	Tepraloxydim	149979-41-9	2932.99.00

Reference	Chemical name	CAS number	CN code ¹
Annex I Parts 1 & 2	Thiacloprid	111988-49-9	2934.10.00
Annex I Parts 1 & 2	Thiamethoxam	153719-23-4	2934.10.00
Annex I Parts 1 & 2	Thiobencarb	28249-77-6	2930.20.00
Annex I Parts 1 & 2	Thiodicarb	59669-26-0	2930.90.95
Annex I Parts 1 & 2	Thiophanate-methyl	23564-05-8	2930.90.95
Annex I Parts 1 & 2	Thiram	137-26-8	2930.30.00
Annex I Parts 1 & 2	Tolyfluanid	731-27-1	2930.90.95
Annex I Parts 1 & 2	Tralkoxydim	87820-88-0	2928.00.90
Annex I Parts 1 & 2	Triadimenol	55219-65-3	2933.99.80
Annex I Parts 1 & 2	Triasulfuron	82097-50-5	2935.90.90
Annex I Parts 1 & 2	Triclosan	3380-34-5	2909.50.00
Annex I Parts 1 & 2	Tricyclazole	41814-78-2	2934.99.90
Annex I Parts 1 & 2	Triflumizole	68694-11-1	2933.29.90
Annex I Parts 1 & 2	Triflumuron	64628-44-0	2924.21.00
Annex I Parts 1 & 2	Trifluralin	1582-09-8	2921.43.00
Annex I Parts 1 & 2	Triflusulfuron-methyl	126535-15-7	2935.90.90
Annex I Parts 1 & 2	Tris (2-chloroethyl) phosphate	115-96-8	2919.90.00
Annex I Parts 1 & 2	Vinclozolin	50471-44-8	2934.99.90
Annex I Parts 1 & 2	Warfarin	81-81-2	2932.20.90
Annex I Parts 1 & 3	1,2-dibromoethane; EDB	106-93-4	2903.62.00
Annex I Parts 1 & 3	2-(butan-2-yl)-4,6-dinitrophenol; Dinoseb	88-85-7	2908.91.00
Annex I Parts 1 & 3	2,4,5-Trichlorophenoxyacetic acid; 2,4,5-T	93-76-5	2918.91.00
Annex I Parts 1 & 3	Actinolite	77536-66-4	2524.90.00
Annex I Parts 1 & 3	Alachlor	15972-60-8	2924.25.00
Annex I Parts 1 & 3	Aldicarb	116-06-3	2930.80.00
Annex I Parts 1 & 3	Amosite	12172-73-5	2524.90.00
Annex I Parts 1 & 3	Anthophyllite	77536-67-5	2524.90.00
Annex I Parts 1 & 3	Azinphos-methyl	86-50-0	2933.92.00
Annex I Parts 1 & 3	Benomyl	17804-35-2	2933 99 80

Reference	Chemical name	CAS number	CN code ¹
Annex I Parts 1 & 3	Binapacryl	485-31-4	2916.16.00
Annex I Parts 1 & 3	Bis(pentabromophenyl) ether (dec- abromodiphenyl ether)	1163-19-5	2909.30.38
Annex I Parts 1 & 3	Captafol	2425-06-1	2930.80.00
Annex I Parts 1 & 3	Carbofuran	1563-66-2	2932.96.00
Annex I Parts 1 & 3	Chlordimeform	6164-98-3	2925.21.00
Annex I Parts 1 & 3	Chlorobenzilate	510-15-6	2918.18.00
Annex I Parts 1 & 3	Crocidolite	12001-28-4	2524.10.00
Annex I Parts 1 & 3	Decabromo-1,1'-biphenyl	13654-09-6	2903 99 80
Annex I Parts 1 & 3	Diethanolammonium perfluorooctane sulfonate	70225-14-8	2922.16.00
Annex I Parts 1 & 3	Dinitro-ortho-cresol; DNOC	534-52-1	2908.92.00
Annex I Parts 1 & 3	Dinoseb-acetate	2813-95-8	2915.36.00
Annex I Parts 1 & 3	Dinoseb-ammonium	6365-83-9	2908.91.00
Annex I Parts 1 & 3	Dinoseb-sodium	35040-03-0	2908.91.00
Annex I Parts 1 & 3	Dinoseb-trolamine	6420-47-9	2922.19.00
Annex I Parts 1 & 3	DNOC-ammonium	2980-64-5	2908.92.00
Annex I Parts 1 & 3	DNOC-potassium	5787-96-2	2908.92.00
Annex I Parts 1 & 3	DNOC-sodium	2312-76-7	2908.92.00
Annex I Parts 1 & 3	E/Z-Phosphamidon	13171-21-6	2924.12.00
Annex I Parts 1 & 3	E-Phosphamidon	297-99-4	2924.12.00
Annex I Parts 1 & 3	Ethylene dichloride; 1,2-dichloroethane	107-06-2	2903.15.00
Annex I Parts 1 & 3	Ethylene oxide; oxirane	75-21-8	2910.10.00
Annex I Parts 1 & 3	Fluoroacetamide	640-19-7	2924.12.00
Annex I Parts 1 & 3	Methamidophos	10265-92-6	2930.80.00
Annex I Parts 1 & 3	Methyl-parathion	298-00-0	2920.11.00
Annex I Parts 1 & 3	Monocrotophos	6923-22-4	2924.12.00
Annex I Parts 1 & 3	Parathion	56-38-2	2920.11.00
Annex I Parts 1 & 3	Perfluorooctane sulfonic acid	1763-23-1	2904.31.00
Annex I Parts 1 & 3	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	335-67-1	2915.90.70

Reference	Chemical name	CAS number	CN code ¹
Annex I Parts 1 & 3	Phenylmercuric acetate	62-38-4	2852.10.00
Annex I Parts 1 & 3	Phenylmercury neodecanoate	26545-49-3	2852.10.00
Annex I Parts 1 & 3	Phorate	298-02-2	2930.90.80
Annex I Parts 1 & 3	Polychlorinated terphenyl	61788-33-8	2903.99.80
Annex I Parts 1 & 3	Potassium perfluorooctane sulfonate	2795-39-3	2904.34.00
Annex I Parts 1 & 3	Terbufos	13071-79-9	2930.90.95
Annex I Parts 1 & 3	Tetraethyl lead	78-00-2	2931.10.00
Annex I Parts 1 & 3	Tetrabromo(tetrabromophenyl)benzene	27858-07-7	2903 99 80
Annex I Parts 1 & 3	Tetraethylammonium perfluorooctane sulfonate	56773-42-3	2923.30.00
Annex I Parts 1 & 3	Tetramethyl lead	75-74-1	2931.10.00
Annex I Parts 1 & 3	Thiram	137-26-8	2930.30.00
Annex I Parts 1 & 3	Tremolite	77536-68-6	2524.90.00
Annex I Parts 1 & 3	Tributyltin benzoate	4342-36-3	2931.20.00
Annex I Parts 1 & 3	Tributyltin chloride	1461-22-9	2931.20.00
Annex I Parts 1 & 3	Tributyltin fluoride	1983-10-4	2931.20.00
Annex I Parts 1 & 3	Tributyltin linoleate	24124-25-2	2931.20.00
Annex I Parts 1 & 3	Tributyltin methacrylate	2155-70-6	2931.20.00
Annex I Parts 1 & 3	Tributyltin naphthenate	85409-17-2	2931.20.00
Annex I Parts 1 & 3	Tributyltin oxide	56-35-9	2931.20.00
Annex I Parts 1 & 3	Trichlorfon	52-68-6	2931.54.00
Annex I Parts 1 & 3	tris-(2,3-dibromopropyl) phosphate	126-72-7	2919.10.00
Annex I Parts 1 & 3	Z-Phosphamidon	23783-98-4	2924.12.00
Annex V	Diethanolammonium perfluorooctane sulfonate	70225-14-8	2922.16.00
Annex V	N-Ethylperfluorooctane sulphonamide; Sulfluramid	4151-50-2	2935.20.00
Annex V	N-Methylperfluorooctane sulphonamide	31506-32-8	2935.10.00
Annex V	N-Ethyl-N-(2-hydroxyethyl) perfluorooctane sulphonamide	1691-99-2	2935.30.00
Annex V	N-(2-Hydroxyethyl)-N-methylperfluorooctane sulphonamide	24448-09-7	2935.40.00
Annex V	Perfluorooctane sulfonic acid	1763-23-1	2904.31.00

Reference	Chemical name	CAS number	CN code ¹
Annex V	Didecyldimethylammonium perfluorooctane sulfonate	251099-16-8	2923.40.00
Annex V Part 1	1,1,1-trichloro-2,2-bis (p-chlorophenyl) ethane; DDT	50-29-3	2903.92.00
Annex V Part 1	1,2,3,4,5,6-hexachlorocyclohexane	608-73-1	2903.81.00
Annex V Part 1	1,2,5,6,9,10-hexabromocyclododecane	3194-55-6	2903.89.70
Annex V Part 1	2,2',3,3',4,5',6-heptabromodiphenyl ether	446255-22-7	2909.30.38
Annex V Part 1	2,2',3,4,4',5',6-heptabromodiphenyl ether	207122-16-5	2909.30.38
Annex V Part 1	2,2',4,4',5,6'-hexabromodiphenyl ether	207122-15-4	2909.30.38
Annex V Part 1	2,2',4,4',5-pentabromodiphenyl ether	60348-60-9	2909.30.31
Annex V Part 1	a-Endosulfan	959-98-8	2920.90.70
Annex V Part 1	Aldrin	309-00-2	2903.82.00
Annex V Part 1	a-Lindane; a-hexachlorocyclohexane	319-84-6	2903.81.00
Annex V Part 1	b-hexabromocyclododecane	134237-51-7	2903.89.70
Annex V Part 1	bis(2,4,5-tribromophenyl) ether	68631-49-2	2909.30.38
Annex V Part 1	bis(2,4-dibromophenyl) ether	5436-43-1	2909.30.38
Annex V Part 1	b-Lindane; b-hexachlorocyclohexane	319-85-7	2903.81.00
Annex V Part 1	Chlordane	57-74-9	2903.82.00
Annex V Part 1	Chlordecone	143-50-0	2914.29.00
Annex V Part 1	Chloro-alkanes (C10-C12)	108171-26-2	3824.89.00
Annex V Part 1	Chloro-alkanes (C10-C13)	85535-84-8	3824.89.00
Annex V Part 1	Chloro-alkanes (C10-C14)	85681-73-8	3824.89.00
Annex V Part 1	Chloro-alkanes (C12-C13)	71011-12-6	3824.89.00
Annex V Part 1	Chloro-alkanes (C12-C14)	85536-22-7	3824.89.00
Annex V Part 1	Chloro-alkanes (C6-C18)	68920-70-7	3824.89.00
Annex V Part 1	Chloro-naphthalenes (mixture)	70776-03-3	3824.99.92
Annex V Part 1	Decabromodiphenyl ether	1163-19-5	2909.30.38
Annex V Part 1	Dicofol	115-32-2	2906.29.00
Annex V Part 1	Dieldrin	60-57-1	2910.40.00
Annex V Part 1	Endosulfan	115-29-7	2920.30.00
Annex V Part 1	Endrin	72-20-8	2910.50.00

Reference	Chemical name	CAS number	CN code ¹
Annex V Part 1	γ -hexabromocyclododecane	134237-52-8	2903.89.70
Annex V Part 1	Heptabromodiphenyl ether	68928-80-3	2909.30.38
Annex V Part 1	Heptachlor	76-44-8	2903.82.00
Annex V Part 1	Hexabromobiphenyl	36355-01-8	2903.94.00
Annex V Part 1	Hexabromocyclododecane	25637-99-4	2903.89.70
Annex V Part 1	Hexabromodiphenyl ether	36483-60-0	2909.30.38
Annex V Part 1	Hexachlorobenzene	118-74-1	2903.92.00
Annex V Part 1	Hexachlorobutadiene	87-68-3	2903.29.00
Annex V Part 1	Lindane	58-89-9	2903.81.00
Annex V Part 1	Mirex	2385-85-5	2903.83.00
Annex V Part 1	Pentabromodiphenyl ether (mixture of isomers)	32534-81-9	2909.30.31
Annex V Part 1	Pentachlorobenzene	608-93-5	2903.93.00
Annex V Part 1	Pentachlorophenol	87-86-5	2908.11.00
Annex V Part 1	Perfluorohexane sulfonic acid (PFH _x S), its salts and PFH _x S-related compounds	355-46-4	2904.99.00
Annex V Part 1	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	335-67-1	2915.90.70
Annex V Part 1	Polychlorinated biphenyl	1336-36-3	2903.99.80
Annex V Part 1	Potassium perfluorooctane sulfonate	2795-39-3	2904.34.00
Annex V Part 1	Tetrabromodiphenyl ether	40088-47-9	2909.30.38
Annex V Part 1	Tetraethylammonium perfluorooctane sulfonate	56773-42-3	2923.30.00
Annex V Part 1	Toxaphene (camphechlor)	8001-35-2	3808.59.00
Annex V Part 1	α -hexabromocyclododecane	134237-50-6	2903.89.70
Annex V Part 1	β -Endosulfan	33213-65-9	2920.90.70
Annex V Part 2	Ammonium perfluorooctane sulfonate	29081-56-9	2904.32.00
Annex V Part 2	Cinnabar ore	N/A	2617.90.00
Annex V Part 2	Dimercury dichloride; Hg ₂ Cl ₂	10112-91-1	2852.10.00
Annex V Part 2	Dimercury diiodide; Hg ₂ I ₂	15385-57-6	2852.10.00
Annex V Part 2	Dimercury sulphate; Hg ₂ SO ₄	7783-36-0	2852.10.00
Annex V Part 2	Lithium perfluorooctane sulfonate	29457-72-5	2904.33.00

Reference	Chemical name	CAS number	CN code¹
Annex V Part 2	Mercury	7439-97-6	2805.40 (subheading)
Annex V Part 2	Mercury (II) nitrate; Hg(NO ₃) ₂	10045-94-0	2852.10.00
Annex V Part 2	Mercury (II) oxide; HgO	21908-53-2	2852.10.00
Annex V Part 2	Mercury dithiocyanate; Hg(SCN) ₂	592-85-8	2852.10.00
Annex V Part 2	Mercury sulphate HgSO ₄	7783-35-9	2852.10.00
Annex V Part 2	Mercury sulphide; HgS	1344-48-5	2852.10.00
Annex V Part 2	Perfluorooctane sulfonyl fluoride	307-35-7	2904.36.00

¹ in bold new chemicals or new CN codes.

Source: European Commission.

2.8. Restrictive measures

Restrictive measures are an essential tool in the EU's Common Foreign and Security Policy (CFSP), through which the EU can intervene where necessary to prevent conflict or respond to emerging or current crises. The EU has almost forty different sanctions regimes in place versus as many third countries.⁵⁵ Some are mandated by the United Nations Security Council whereas others are adopted autonomously by the EU. Currently, around twenty sanctions regimes establish a ban on the export of the Common Military List products (see paragraph 2.3) and a minor number ban the products of the EU dual-use control list (see paragraph 2.2).

In addition to these specific bans (for the products of the Common Military list and the dual-use control list), six sanction regimes set specific restrictive measures on other chemicals. Generally, this is because the chemicals were used in chemical or nuclear weapons programs, long-range missile programs, or serious human rights abuses and repression of civilian populations. Sometimes, it is because the chemicals could contribute to enhance the third country's industrial capacities.

The following paragraphs focus on the chemicals that are part of the six sanction restrictive measures.

⁵⁵ EU Sanction Map, <https://sanctionsmap.eu/#/main>

2.8.1 DPRK

The consolidated version of Regulation (EU) No 2017/1509⁵⁶ governs the export control of strategic items to the DPRK. In addition to the total ban for the dual-use items to all end-users, Annex II of the regulation lists other items, materials, equipment, goods and technology which could contribute to DPRK's nuclear-related, ballistic missile-related or other weapons of mass destruction-related programmes, some of which are chemicals (see Table 14).

Table 14. Chemicals subject to the restrictive measures against DPRK, (EU) No 2017/1509.

Reference	Chemical name	CAS number	CN code ¹
Annex II Part II.A1.001	(2-ethylhexyl) phosphoric acid; HDEHP	298-07-7	2919.90.00
Annex II Part II.A1.002	Fluorine; F ₂	7782-41-4	2801.30.10
Annex II Part II.A1.014	Cobalt powders	7440-48-4	8105.20.00
Annex II Part II.A1.014	Neodymium powders	7440-00-8	2805.30.29.40
Annex II Part II.A1.014	Samarium powders	7440-19-9	2805.30.29.50
Annex II Part II.A1.015	Tributyl phosphate; TBP	126-73-8	2919.90.00
Annex II Part II.A1.017	Tungsten powders	7440-33-7	8101.10.00
Annex II Part II.A1.017	Molybdenum powders	7439-98-7	8102.10.00
Annex II Part II.A1.020	Artificial graphite	N/A	3801 (heading)
Annex II Part II.A1.026	Zirconium powders	7440-67-7	8109 (heading)
Annex II Part III.A1.003	Aluminium powders	7429-90-5	7603.10.00
Annex II Part IV.A1.006	Zirconium hydride; ZrH	13940-37-9	2850.00.20
Annex II Part IV.A1.006	Zirconium hydride; ZrH ₂	7704-99-6	2850.00.20
Annex II Part IV.A1.006	Zirconium hydride; ZrH ₄	15457-96-2	2850.00.20
Annex II Part IV.A1.007	Sodium metal	7440-23-5	2805.11.00
Annex II Part IV.A1.008	Sulphur trioxide	7446-11-9	2811.29.10
Annex II Part IV.A1.009	Aluminium chloride; AlCl ₃	7446-70-0	2827.32.00
Annex II Part IV.A1.010	Potassium Bromide, KBr	7758-02-3	2827.51.00

⁵⁶ Council Regulation (EU) 2017/1509 of 30 August 2017 concerning restrictive measures against the Democratic People's Republic of Korea and repealing Regulation (EC) No 329/2007, <https://eur-lex.europa.eu/eli/reg/2017/1509/oj/eng>

Reference	Chemical name	CAS number	CN code ¹
Annex II Part IV.A1.011	Sodium bromide, NaBr	7647-15-6	2827.51.00
Annex II Part IV.A1.012	Dichloromethane	75-09-2	2903.12.00
Annex II Part IV.A1.013	Isopropyl bromide	75-26-3	2903.69.19
Annex II Part IV.A1.014	Isopropyl ether	108-20-3	2909.19.90
Annex II Part IV.A1.015	Monoisopropylamine	75-31-0	2921.19.99
Annex II Part IV.A1.016	Trimethylamine	75-50-3	2921.11.00
Annex II Part IV.A1.017	Tributylamine	102-82-9	2921.19.99
Annex II Part IV.A1.018	Triethylamine	121-44-8	2921.19.99
Annex II Part IV.A1.019	N,N-Dimethylaniline	121-69-7	2921.42.00
Annex II Part IV.A1.020	Pyridine	110-86-1	2933.31.00
Annex II Part V.A1.001	Toluene 2,4 di-isocyanate; TDI	584-84-9	2929.10.00
Annex II Part V.A1.001	Toluene 2,6 di-isocyanate; TDI	91-08-7	2929.10.00
Annex II Part V.A1.001	Toluene di-isocyanate mix of isomeres	26471-62-5	2929.10.00
Annex II Part V.A1.001	4,4'-Methylene diphenyl diisocyanate; 4,4' MDI	101-68-8	2929.10.00
Annex II Part V.A1.001	2,2'-Methylene diphenyl diisocyanate; 2,2' MDI	2536-05-2	2929.10.00
Annex II Part V.A1.001	2,4'-Methylene diphenyl diisocyanate; 2,4' MDI	5873-54-1	2929.10.00
Annex II Part V.A1.001	Isophorone diisocyanate, IPDI	4098-71-9	2929.10.00
Annex II Part V.A1.001	Hexamethylene diisocyanate, HNMDI or HDI	822-06-0	2929.10.00
Annex II Part V.A1.002	Ammonium nitrate, chemically pure or in phase stabilized version (PSAN)	6484-52-2	3102.30 (subheading)
Annex II Part VI.A1.006	Diethyl adipate; DOA	123-79-5	2917.12.00
Annex II Part VI.A1.006	Diethyl azelate; DOZ	103-24-2	2917.13.90
Annex II Part VI.A1.006	Diethyl sebacate; DOS	122-62-3	2917.13.90
Annex II Part VI.A1.010	Diethylenetriamine	111-40-0	2921.29.00
Annex II Part VI.A1.011	Butyrylcholinesterase; BCHE	9001-08-5	3507.90.90
Annex II Part VI.A1.011	Obidoxime chloride	114-90-9	2933.39.99
Annex II Part VI.A1.011	Pyridostigmine bromide	101-26-8	2933.39.10
Annex II Part VII.A1.013	Guanidine nitrate	506-93-4	2925.29.00
Annex II Part VII.A1.013	Nitroguanidine	556-88-7	2929.90.90

Reference	Chemical name	CAS number	CN code¹
Annex II Part VIII.A1.003	Tributyl phosphate; TBP	126-73-8	2919.90.00
Annex II Part VIII.A1.004	Nitric acid; HNO ₃	7697-37-2	2808.00.00
Annex II Part VIII.A1.005	Fluorine; F ₂	7782-41-4	2801.30.10
Annex IX	Diamonds	7782-40-3	7102 (heading)
Annex IX	Silver	7440-22-4	7106 (heading)
Annex IX	Gold	7440-57-5	7108 (heading)
Annex IX	Platinum	7440-06-4	7110 (heading)
Annex Xlc	Natural gas condensates	68919-39-1	2709.00.10
Annex Xlc	Liquefied natural gas	8006-14-2	2711.11.00

¹ in bold new chemicals or new CN codes.

Source: European Commission.

2.8.2 Iran

The recent Council Regulation (EU) 2025/1975 of Sept. 29, 2025⁵⁷ has reintroduced (Article 2) the same level of EU restrictive measures foreseen by Council Regulation (EU) No 267/2012⁵⁸ governing the export control of strategic items to Iran, thus eliminating the facilitations introduced by Council Regulation 1375/2016, following the Joint Comprehensive Plan of Action (JCPOA)⁵⁹.

As foreseen by Council Regulation (EU) No 267/2012 it was thus reintroduced the prohibition to export all the items included in the EU dual-use control list with few exceptions: Systems, equipment, application specific “electronic assemblies”, modules and integrated circuits for “information security” related to networks such as Wi-Fi, 2G, 3G, 4G or fixed networks (classical, ADSL or optic fibres), as follows, and components specially designed for “information security”; software and technology related to the above.

Annex II lists chemicals, among other goods, that could contribute to sensitive nuclear-related activities (fuel reprocessing and enrichment, or heavy water production). Annex III lists chemicals, among other goods, that could contribute to the development of nuclear processes, in addition to those included in Annex II. Table 15 shows the inventory of the chemical substances indicated in the two annexes.

Table 15. Chemicals subject to the restrictive measures against Iran, (EU) No 267/2012.

Reference	Chemical name	CAS number	CN code ¹
Annex II A1.001	Bis(2-ethylhexyl) phosphoric acid	298-07-7	2919.90.00
Annex II A1.002	Fluorine; F ₂	7782-41-4	2801.30.10
Annex II A1.014	Cobalt powders	7440-48-4	8105.20.00
Annex II A1.014	Neodymium powders	7440-00-8	2805.30.29.40
Annex II A1.014	Samarium powders	7440-19-9	2805.30.29.50
Annex II A1.015	Tributyl phosphate; TBP	126-73-8	2919.90.00
Annex II A1.024.a	Toluene di-isocyanate; TDI	584-84-9	2929.10.00
Annex II A1.024.a	Toluene di-isocyanate; TDI	91-08-7	2929.10.00
Annex II A1.024.a	Toluene di-isocyanate; TDI	26471-62-5	2929.10.00
Annex II A1.024.b	4,4'-Methylene diphenyl diisocyanate; 4,4' MDI	101-68-8	2929.10.00
Annex II A1.024.b	2,2'-Methylene diphenyl diisocyanate; 2,2' MDI	2536-05-2	2929.10.00

⁵⁷ Council Regulation (EU) 2025/1975 of 29 September 2025 amending Regulation (EU) No 267/2012 concerning restrictive measures against Iran, <https://eur-lex.europa.eu/eli/reg/2025/1975/oj/eng>

⁵⁸ Council Regulation (EU) No 267/2012 of 23 March 2012 concerning restrictive measures against Iran and repealing Regulation (EU) No 961/2010, <https://eur-lex.europa.eu/eli/reg/2012/267/oj/eng>

⁵⁹ The Joint Comprehensive Plan of Action also known as the Iran nuclear deal or Iran deal, was an agreement to limit the Iranian nuclear program in return for sanctions relief and other provisions.

Reference	Chemical name	CAS number	CN code ¹
Annex II A1.024.b	2,4'-Methylene diphenyl diisocyanate; 2,4' MDI	5873-54-1	2929.10.00
Annex II A1.024.c	Isophorone diisocyanate, IPDI	4098-71-9	2929.10.00
Annex II A1.024.d	Sodium Perchlorate	7601-89-0	2829.90.10
Annex II A1.024.e	2,3-xylydine	87-59-2	2921.49.00
Annex II A1.024.e	2,4-xylydine	95-68-1	2921.49.00
Annex II A1.024.e	2,5-xylydine	95-78-3	2921.49.00
Annex II A1.024.e	2,6-xylydine	87-62-7	2921.49.00
Annex II A1.024.e	3,4-xylydine	95-64-7	2921.49.00
Annex II A1.024.e	3,5-xylydine	108-69-0	2921.49.00
Annex II A1.025.a	Perfluoropolyalkyl Ether	60164-51-4	2909.19.90
Annex II A1.025.b	Perfluoropolyalkylether, PFPE	6991-67-9	2909.19.90
Annex III 1C011.a	Magnesium	7439-95-4	8104.11.00
Annex III 1C011.a	Zirconium	7440-67-7	8109.21.00
Annex III 1C011.a	Zirconium	7440-67-7	8109.31.00
Annex III 1C011.a	Zirconium	7440-67-7	8109.91.00
Annex III 1C011.c	Guanidine nitrate	506-93-4	2925.29.00
Annex III 1C011.d	Nitroguanidine	556-88-7	2929.90.90
Annex III 1C111.a.1	Aluminium powder	7429-90-5	7603.10.00
Annex III 1C111.2.a.1	Zirconium powder	7440-67-7	8109.29.00
Annex III 1C111.2.a.2	Beryllium powder	7440-41-7	8112.12.00
Annex III 1C111.2.a.3	Magnesium powder	7439-95-4	8104.30.00
Annex III 1C111.2.b	Boron powder	7440-42-8	2804.50.10
Annex III 1C111.3.a	Dinitrogen trioxide; N ₂ O ₃	10544-73-7	2811.29.30
Annex III 1C111.3.b	Nitrogen dioxide; NO ₂	10102-44-0	2811.29.30
Annex III 1C111.3.b	Dinitrogen tetroxide; N ₂ O ₄	10544-72-6	2811.29.30
Annex III 1C111.3.c	Dinitrogen pentoxide; N ₂ O ₅	10102-03-1	2811.29.30
Annex III 1C111.3.d	Mixed oxydes of nitrogen; MON _x	N/A	3824.99.96
Annex III 1C111.3.e	Inhibited red fuming nitric acid; IRFNA	8007-58-7	2808.00.00
Annex III 1C111.4.a	Trimethylhydrazine	1741-01-1	2928.00.90

Reference	Chemical name	CAS number	CN code ¹
Annex III 1C111.4.b	Tetramethylhydrazine	6415-12-9	2928.00.90
Annex III 1C111.4.c	N,N-Diallylhydrazine	5164-11-4	2928.00.90
Annex III 1C111.4.d	Allylhydrazine	7422-78-8	2928.00.90
Annex III 1C111.4.e	Ethylene dihydrazine	N/A	2928.00.90
Annex III 1C111.4.f	Monomethylhydrazine dinitrate	N/A	2928.00.90
Annex III 1C111.4.g	Unsymmetrical dimethylhydrazine nitrate	N/A	2928.00.90
Annex III 1C111.4.h	Hydrazinium azide	14546-44-2	2825.10.00
Annex III 1C111.4.i	1,1-Dimethylhydrazinium azide	227955-52-4	2928.00.90
Annex III 1C111.4.i	1,2-Dimethylhydrazinium azide	299177-50-7	2928.00.90
Annex III 1C111.4.j	Hydrazinium dinitrate	13464-98-7	2825.10.00
Annex III 1C111.4.k	Diimido oxalic acid dihydrazine	3457-37-2	2928.00.90
Annex III 1C111.4.l	2-hydroxyethylhydrazine nitrate; HEHN	N/A	2928.00.90
Annex III 1C111.4.m	Hydrazinium perchlorate	27978-54-7	2825.10.00
Annex III 1C111.4.n	Hydrazinium diperchlorate	13812-39-0	2825.10.00
Annex III 1C111.4.o	Methylhydrazine nitrate; MHN	29674-96-2	2928.00.90
Annex III 1C111.4.p	1,1-Diethylhydrazine nitrate; DEHN	N/A	2928.00.90
Annex III 1C111.4.p	1,2-Diethylhydrazine nitrate; DEHN	36453-17-2	2928.00.90
Annex III 1C111.4.q	3,6-Dihydrazino tetrazine nitrate; DHTN	N/A	2933.99.80
Annex III 1C111.5.b	Cubane	277-10-1	2902.19.00
Annex III 1C111.5.b	Dihydrobenzvalene	287-12-7	2902.19.00
Annex III 1C111.5.b	1,3-dimethyladamantane	702-79-4	2902.19.00
Annex III 1C111.5.b	Exo-tetrahydro-dicyclopentadiene	2825-82-3	2902.19.00
Annex III 1C111.5.b	Quadricyclane	278-06-8	2902.19.00
Annex III 1C111.5.b	Tricyclo[2.2.1.0(2,6)]heptane	279-19-6	2902.19.00
Annex III 1C111.5.b	Perhydro-dinorbornadiene	66289-74-5	2902.19.00
Annex III 1C111.6.a	1,2-Dimethylaminoethylazide; DMAZ	86147-04-8	2928.00.90
Annex III 1C111.6.b.1	Carboxy-terminated polybutadiene; CTPB	N/A	4002.20.00
Annex III 1C111.6.b.2	Hydroxyl terminated polybutadiene; HTPB	69102-90-5	4002.20.00
Annex III 1C111.6.b.3	Polybutadiene-acrylic acid; PBAA	N/A	4002.99.90

Reference	Chemical name	CAS number	CN code ¹
Annex III 1C111.6.b.4	Polybutadiene-acrylic acid-acrylonitrile; PBAN	N/A	4002.99.90
Annex III 1C111.6.b.5	Polytetrahydrofuran polyethylene glycol; TPEG	N/A	3907.29.20
Annex III 1C111.6.b.6	Polyglycidyl nitrate; Poly-GLYN or PGN	27814-48-8	3907.29.11
Annex III 1C111.6.c.1	Carboranes	N/A	2934.99.90
Annex III 1C111.6.c.1	Decaborane; B ₁₀ H ₄	17702-41-9	2850.00.20
Annex III 1C111.6.c.1	Pentaborane-11; B ₅ H ₁₁	18433-84-6	2850.00.20
Annex III 1C111.6.c.1	Pentaborane-9; B ₅ H ₉	19624-22-7	2850.00.20
Annex III 1C111.6.c.2	Triethylene glycol dinitrate; TEGDN	111-22-8	2920.90.70
Annex III 1C111.6.c.3	2-Nitrodiphenylamine	119-75-5	2921.44.00
Annex III 1C111.6.c.4	Trimethylolethane trinitrate; TMETN	3032-55-1	2920.90.70
Annex III 1C111.6.c.5	Diethylene glycol dinitrate; DEGDN	693-21-0	2920.90.70
Annex III 1C111.6.c.6.a	Catocene	37206-42-1	2931.90.00
Annex III 1C111.6.c.6.b	Ethyl ferrocene	1273-89-8	2931.90.00
Annex III 1C111.6.c.6.c	n-Propyl ferrocene	1273-92-3	2931.90.00
Annex III 1C111.6.c.6.c	iso-propyl ferrocene	12126-81-7	2931.90.00
Annex III 1C111.6.c.6.d	n-Butyl ferrocene	31904-29-7	2931.90.00
Annex III 1C111.6.c.6.e	Pentyl ferrocene	1274-00-6	2931.90.00
Annex III 1C111.6.c.6.f	Dicyclopentyl ferrocene	125861-17-8	2931.90.00
Annex III 1C111.6.c.6.g	Dicyclohexyl ferrocene	N/A	2931.90.00
Annex III 1C111.6.c.6.h	Diethyl ferrocene	1273-97-8	2931.90.00
Annex III 1C111.6.c.6.i	Dipropyl ferrocene	N/A	2931.90.00
Annex III 1C111.6.c.6.j	Dibutyl ferrocene	1274-08-4	2931.90.00
Annex III 1C111.6.c.6.k	Dihexyl ferrocene	93894-59-8	2931.90.00
Annex III 1C111.6.c.6.l	Acetyl ferrocene	1271-55-2	2931.90.00
Annex III 1C111.6.c.6.l	1,1'-Diacetyl ferrocene	1273-94-5	2931.90.00
Annex III 1C111.6.c.6.m	Ferrocene carboxylic acid	1271-42-7	2931.90.00
Annex III 1C111.6.c.6.m	1,1'-Ferrocenedicarboxylic acid	1293-87-4	2931.90.00
Annex III 1C111.6.c.6.n	Butacene	125856-62-4	4002.20.00

Reference	Chemical name	CAS number	CN code ¹
Annex III 1C111.6.c.7	4,5-diazidomethyl-2-methyl-1,2,3-triazole; iso-DAMTR	N/A	2933.99.80
Annex III 1C238	Chlorine trifluoride; ClF ₃	7790-91-2	2812.90.00
Annex III 1C238	Chlorine monofluoride; ClF	7790-89-8	2812.90.00
Annex III 1C238	Chlorine pentafluoride; ClF ₅	13637-63-3	2812.90.00
Annex III 1C238	Chloryl fluoride; ClO ₂ F	13637-83-7	2812.90.00
Annex III 1C238	Bromine pentafluoride; BrF ₅	7789-30-2	2812.90.00
Annex III 1C238	Bromine trifluoride; BrF ₃	7787-71-5	2812.90.00
Annex III 1C238	Bromyl fluoride; BrO ₂ F	22585-64-4	2812.90.00
Annex III 1C238	Perchloryl trifluoride; ClOF ₃	7616-94-6	2812.90.00
Annex III 1C238	Perbromyl fluoride; BrO ₃ F	25251-03-0	2812.90.00
Annex III 1C238	Nitrogen trifluoride; NF ₃	7783-54-2	2812.90.00

¹ in bold new chemicals or new CN codes.

Source: European Commission.

2.8.3 Libya

The consolidated version of Regulation (EU) No 2016/44⁶⁰ fixes the ban of strategic equipment which might be used for internal repression in addition to the goods and technology listed in the Common Military List of the European Union (see paragraph 2.3). Some of this strategic equipment are chemicals; they are shown in Table 16 below.

Table 16. Chemicals subject to the restrictive measures against Libya, (EU) No 2016/44.

Reference	Chemical name	CAS number	CN code
Annex I 4.3 (a)	Ammonium nitrate (component of Amatol)	6484-52-2	3102.30 (subheading)
Annex I 4.3 (b)	Nitrocellulose	9004-70-0	3912.20.19
Annex I 4.3 (c)	Nitroglycol	628-96-6	2920.90.70
Annex I 4.3 (d)	Pentaerythritol tetranitrate; PETN	78-11-5	2920.90.70
Annex I 4.3 (e)	Picryl chloride	88-88-0	2904.99.00
Annex I 4.3 (f)	2,4,6-trinitrotoluene; TNT	118-96-7	2904.20.00

Source: European Commission.

⁶⁰ Council Regulation (EU) 2016/44 of 18 January 2016 concerning restrictive measures in view of the situation in Libya and repealing Regulation (EU) No 204/2011, <https://eur-lex.europa.eu/eli/req/2016/44/2025-01-29/eng>

2.8.4 Syria

Chemicals whose sale, supply, transfer or export to Syria is restricted were first listed in annexes to Council Regulation (EU) No 36/2012⁶¹. Later, there were relevant amendments like the (EU) No 509/2012⁶² and (EU) 697/2013⁶³.

Annexes I and IX to the consolidated version of Regulation (EU) No 36/2012 contain those chemicals subject to a prior authorisation for export; they are shown in Table 17.

Table 17. Chemicals subject to the restrictive measures against Syria, (EU) No 36/2012.

Reference	Chemical name	CAS number	CN code ¹
Annex Ia Part 2 C.A.001	Ethylene dichloride; 1,2-dichloroethane	107-06-2	2903.15.00
Annex Ia Part 2 C.A.002	Nitromethane	75-52-5	2904.20.00
Annex Ia Part 2 C.A.002	Picric acid	88-89-1	2908.99.00
Annex Ia Part 2 C.A.003	Aluminium chloride; AlCl ₃	7446-70-0	2827.32.00
Annex Ia Part 2 C.A.003	Arsenic	7440-38-2	2804.80.00
Annex Ia Part 2 C.A.003	Arsenic trioxide; As ₂ O ₃	1327-53-3	2811.29.10
Annex Ia Part 2 C.A.003	Bis(2-chloroethyl)ethylamine hydrochloride	3590-07-6	2921.19.99
Annex Ia Part 2 C.A.003	Bis(2-chloroethyl)methylamine hydrochloride	55-86-7	2921.19.99
Annex Ia Part 2 C.A.003	Tris(2-chloroethyl)amine hydrochloride	817-09-4	2921.19.99
Annex IX.A1.001	Tributylphosphite	102-85-2	2920.29.00
Annex IX.A1.001	Isocyanomethane	624-83-9	2929.10.00
Annex IX.A1.001	Quinaldine	91-63-4	2933.49.90
Annex IX.A1.001	2-bromochloroethane	107-04-0	2903.79.30
Annex IX.A1.002	Benzil	134-81-6	2914.39.00
Annex IX.A1.002	Diethyl ether	60-29-7	2909.11.00
Annex IX.A1.002	Dimethyl ether	115-10-6	2909.19.90

⁶¹ Council Regulation (EU) No 36/2012 of 18 January 2012 concerning restrictive measures in view of the situation in Syria and repealing Regulation (EU) No 442/2011, <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A02012R0036-20201016>

⁶² Council Regulation (EU) No 509/2012 of 15 June 2012 amending Regulation (EU) No 36/2012 concerning restrictive measures in view of the situation in Syria, <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A32012R0509>

⁶³ Council Regulation (EU) No 697/2013 of 22 July 2013 amending Regulation (EU) No 36/2012 concerning restrictive measures in view of the situation in Syria, <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A32013R0697>

Reference	Chemical name	CAS number	CN code ¹
Annex IX.A1.002	Dimethylaminoethanol	108-01-0	2922.19.00
Annex IX.A1.003	2-methoxyethanol	109-86-4	2909.44.00
Annex IX.A1.003	Butyrylcholinesterase; BCHE	9001-08-5	3507.90.90
Annex IX.A1.003	Diethylenetriamine	111-40-0	2921.29.00
Annex IX.A1.003	Dichloromethane	75-09-2	2903.12.00
Annex IX.A1.003	N,N-Dimethylaniline	121-69-7	2921.42.00
Annex IX.A1.003	Ethyl bromide	74-96-4	2903.69.19
Annex IX.A1.003	Ethyl chloride	75-00-3	2903.11.00
Annex IX.A1.003	Ethylamine	75-04-7	2921.19.99
Annex IX.A1.003	Hexamethylenetetramine; Hexamine	100-97-0	2933.69.40
Annex IX.A1.003	Isopropyl bromide	75-26-3	2903.69.19
Annex IX.A1.003	Isopropyl ether	108-20-3	2909.19.90
Annex IX.A1.003	Methylamine	74-89-5	2921.11.00
Annex IX.A1.003	Methyl bromide	74-83-9	2903.61.00
Annex IX.A1.003	Monoisopropylamine	75-31-0	2921.19.99
Annex IX.A1.003	Obidoxime chloride	114-90-9	2933.39.99
Annex IX.A1.003	Potassium bromide; KBr	7758-02-3	2827.51.00
Annex IX.A1.003	Pyridine	110-86-1	2933.31.00
Annex IX.A1.003	Pyridostigmine bromide	101-26-8	2933.39.10
Annex IX.A1.003	Sodium bromide; NaBr	7647-15-6	2827.51.00
Annex IX.A1.003	Sodium metal	7440-23-5	2805.11.00
Annex IX.A1.003	Tributylamine	102-82-9	2921.19.99
Annex IX.A1.003	Triethylamine	121-44-8	2921.19.99
Annex IX.A1.003	Trimethylamine	75-50-3	2921.11.00
Annex IX.A1.004	Acetone	67-64-1	2914.11.00
Annex IX.A1.004	Acetylene	74-86-2	2901.29.00
Annex IX.A1.004	Ammonia	7664-41-7	2814.10.00
Annex IX.A1.004	Antimony	7440-36-0	8110 (heading)
Annex IX.A1.004	Benzaldehyde	100-52-7	2912.21.00

Reference	Chemical name	CAS number	CN code ¹
Annex IX.A1.004	Benzoin	119-53-9	2914.40.90
Annex IX.A1.004	1-Butanol	71-36-3	2905.13.00
Annex IX.A1.004	2-Butanol	78-92-2	2905.14.90
Annex IX.A1.004	iso-Butanol	78-83-1	2905.14.90
Annex IX.A1.004	tert-Butanol	75-65-0	2905.14.10
Annex IX.A1.004	Calcium carbide; CaC ₂	75-20-7	2849.10.00
Annex IX.A1.004	Carbon monoxide; CO	630-08-0	2811.29.90
Annex IX.A1.004	Chlorine; Cl ₂	7782-50-5	2801.10.00
Annex IX.A1.004	Cyclohexanol	108-93-0	2906.12.00
Annex IX.A1.004	Dicyclohexylamine	101-83-7	2921.30.99
Annex IX.A1.004	Ethanol	64-17-5	2207.10.00
Annex IX.A1.004	Ethylene	74-85-1	2901.21.00
Annex IX.A1.004	Ethylene oxide; oxirane	75-21-8	2910.10.00
Annex IX.A1.004	Fluoroapatite	1306-05-4	2835.39.00
Annex IX.A1.004	Hydrogen chloride; HCl	7647-01-0	2806.10.00
Annex IX.A1.004	Hydrogen sulphide; H ₂ S	7783-06-04	2811.19.80
Annex IX.A1.004	Isopropanol	67-63-0	2905.12.00
Annex IX.A1.004	Mandelic acid	90-64-2	2918.19.98
Annex IX.A1.004	Methanol	67-56-1	2905.11.00
Annex IX.A1.004	Methyl chloride	74-87-3	2903.11.00
Annex IX.A1.004	Methyl iodide	74-88-4	2903.69.80
Annex IX.A1.004	Methyl mercaptan	74-93-1	2930.90.95
Annex IX.A1.004	Monoethyleneglycol; MEG	107-21-1	2905.31.00
Annex IX.A1.004	Oxalyl chloride	79-37-8	2917.19.80
Annex IX.A1.004	Potassium sulphide; K ₂ S	1312-73-8	2830.90.85
Annex IX.A1.004	Potassium thiocyanate; KSCN	333-20-0	2842.90.80
Annex IX.A1.004	Sodium hypochlorite; NaClO	7681-52-9	2828.90.00
Annex IX.A1.004	Sulphur	7704-34-9	2802.00.00
Annex IX.A1.004	Sulphur dioxide	7446-09-5	2811.29.05

Reference	Chemical name	CAS number	CN code¹
Annex IX.A1.004	Sulphur trioxide	7446-11-9	2811.29.10
Annex IX.A1.004	Thiophosphoryl chloride	3982-91-0	2853.90.90
Annex IX.A1.004	Tri-isobutyl phosphite	1606-96-8	2920.29.00
Annex IX.A1.004	White/yellow phosphorus	12185-10-3	2804.70.90

¹ in bold new chemicals or new CN codes.

Source: European Commission.

2.8.5 Russia

The consolidated version of Regulation (EU) No 833/2014⁶⁴ governs the export control of dual-use items and advanced technology items to Russia, in view of the Russia's actions destabilising the situation in Ukraine.

In 2014 the export of goods and technology listed in the Common Military List of the EU (see paragraph 2.2) and the export of dual-use items (see paragraph 2.3) to military end-users in Russia were banned. Lately, on the 25 February 2022, the prohibition for dual-use items was extended to all end-users in Russia, complemented by the creation of a new annex for Advanced Technology items (Annex VII), which included more chemicals in addition to the ones covered by the Annex I to the dual-use regulation (EU) 2021/821.

In 2025, more goods and technologies have been included in the Annex VII and Annex XXIII (listing goods which could contribute in particular to the enhancement of Russian industrial capacities) of Regulation No 833/2014, further expanding the list of items that could contribute to Russia's military and technological enhancement or to the development of its defence and security sector. As consequence, Annex XXIII lists large groups of products sharing the same HS heading (see paragraph 1.2.1).

Table 18 provides the inventory of:

- the chemical substances listed in Annex VII;
- the groups of chemicals listed in Annex XXIII referring only the two Chapters 28 and 29 of the HS devoted to pure chemicals.

⁶⁴ Council Regulation (EU) No 833/2014 of 31 July 2014 concerning restrictive measures in view of Russia's actions destabilising the situation in Ukraine, <http://data.europa.eu/eli/reg/2014/833/oj>

Table 18. Chemicals subject to the restrictive measures against Russia under Council Regulation (EU) No 833/2014.

Reference	Chemical name	CAS number	CN code ¹
Annex VII Part A X.C.I.002.c.1	Ferric chloride	7705-08-0	2827.39.20
Annex VII Part A X.C.I.002.c.2	Cupric chloride	7447-39-4	2827.39.85
Annex VII Part A X.C.I.002.c.3	Ammonium persulphate	7727-54-0	2833.40.00
Annex VII Part A X.C.I.002.c.4	Sodium persulphate	7775-27-1	2833.40.00
Annex VII Part A X.A.VIII.021.b	Pelargonic acid vanillylamide; PAVA	2444-46-4	2939.79.90
Annex VII Part A X.A.VIII.021.c	Oleoresin capsicum; OC	8023-77-6	3301.90.30
Annex VII Part A X.A.VIII.021.c	Oleoresin capsicum; OC	8023-77-6	1302.19.70
Annex VII Part A X.A.VIII.021.g.1	Dibenzo[b,f][1,4]oxazepine; CR	257-07-8	2934.99.90
Annex VII Part A X.A.VIII.021.g.2	8-Methyl-N-vanillyl-trans-6-nonenamide; Capsaicin	404-86-4	2939.79.90
Annex VII Part A X.A.VIII.021.g.3	8-Methyl-N-vanillylnonamide; Dihydrocapsaicin	19408-84-5	2939.79.90
Annex VII Part A X.A.VIII.021.g.4	N-Vanillyl-9-methyldec-7-(E)-enamide; Homocapsaicin	58493-48-4	2939.79.90
Annex VII Part A X.A.VIII.021.g.5	N-Vanillyl-9-methyldecanamide; Homodihydrocapsaicin	20279-06-5	2939.79.90
Annex VII Part A X.A.VIII.021.g.6	N-Vanillyl-7-methyloctanamide; Nordihydrocapsaicin	28789-35-7	2939.79.90
Annex VII Part A X.A.VIII.021.g.7	4-Nonanolylmorpholine; MPA	5299-64-9	2934.99.90
Annex VII Part A X.A.VIII.021.g.8	Cis-4-acetylamino-dicyclohexylmethane	37794-87-9	2924.29.70
Annex VII Part A X.A.VIII.021.g.9	N,N'-Bis(isopropyl)ethylenediimine	4013-94-9	2921.29.00
Annex VII Part A X.A.VIII.021.g.10	N,N'-Bis(tert-butyl)ethylenediimine	4062-60-6	2921.29.00
Annex VII Part A X.A.VIII.021.h.1	Malononitril	109-77-3	2926.90.70

Reference	Chemical name	CAS number	CN code¹
Annex VII Part A X.A.VIII.021.h.2	2-Chlorobenzaldehyde	89-98-5	2913.00.00
Annex VII Part A X.A.VIII.021.h.3	2-Chlorobenzyl alcohol	17849-38-6	2906.29.00
Annex VII Part A X.A.VIII.021.h.4	2-Chlorobenzylamine	89-97-4	2921.49.00
Annex VII Part A X.A.VIII.021.h.5	1-Chloro-2-(dimethoxymethyl)-benzene	70380-66-4	2909.30.90
Annex VII Part A X.A.VIII.021.h.6	Acetophenone	98-86-2	2914.39.00
Annex VII Part A X.A.VIII.021.h.7	Chloroacetyl chloride	79-04-9	2915.90.70
Annex VII Part A X.A.VIII.021.h.8	2-Aminophenol	95-55-6	2922.29.00
Annex VII Part A X.A.VIII.022.a.1	Amobarbital	57-43-2	2933.53.90
Annex VII Part A X.A.VIII.022.a.2	Amobarbital sodium salt	64-43-7	2933.53.90
Annex VII Part A X.A.VIII.022.a.3	Pentobarbital	76-74-4	2933.53.90
Annex VII Part A X.A.VIII.022.a.4	Pentobarbital sodium salt	57-33-0	2933.53.90
Annex VII Part A X.A.VIII.022.a.5	Secobarbital	76-73-3	2933.53.90
Annex VII Part A X.A.VIII.022.a.6	Secobarbital sodium salt	309-43-3	2933.53.90
Annex VII Part A X.A.VIII.022.a.7	Thiopental	76-75-5	2933.53.90
Annex VII Part A X.A.VIII.022.a.8	Thiopental sodium salt	71-73-8	2933.53.90
Annex VII Part A X.C.VIII.004 .a	Ammonium picrate	131-74-8	2908.99.00
Annex VII Part A X.C.VIII.004 .b	Black powder (Gunpowder)	N/A	3601.00.00
Annex VII Part A X.C.VIII.004 .c	Hexanitrodiphenylamine	131-73-7	2921.44.00
Annex VII Part A X.C.VIII.004 .d	Difluoroamine	10405-27-3	2812.90.00

Reference	Chemical name	CAS number	CN code ¹
Annex VII Part A X.C.VIII.004 .e	Nitrostarch	9056-38-6	3505.10.50
Annex VII Part A X.C.VIII.004 .g	Tetranitronaphthalene	N/A	2902.90.00
Annex VII Part A X.C.VIII.004 .h	Trinitroanisol	606-35-9	2909.30.90
Annex VII Part A X.C.VIII.004 .i	Trinitronaphthalene	N/A	2902.90.00
Annex VII Part A X.C.VIII.004 .j	Trinitroxylene	632-92-8	2904.20.00
Annex VII Part A X.C.VIII.004 .k	N-pyrrolidinone; 1-methyl-2-pyrrolidinone	872-50-4	2939.79.90
Annex VII Part A X.C.VIII.004 .l	Diocetylmaleate	142-16-5	2917.19.80
Annex VII Part A X.C.VIII.004 .m	Ethylhexylacrylate	103-11-7	2916.12.00
Annex VII Part A X.C.VIII.004 .n	Triethylaluminium;	97-93-8	2931.90.00
Annex VII Part A X.C.VIII.004 .n	Trimethylaluminium	75-24-1	2931.90.00
Annex VII Part A X.C.VIII.004 .o	Nitrocellulose	9004-70-0	3912.20.19
Annex VII Part A X.C.VIII.004 .p	Nitroglycerin; NG	55-63-0	2920.90.70
Annex VII Part A X.C.VIII.004 .q	2,4,6-trinitrotoluene; TNT	118-96-7	2904.20.00
Annex VII Part A X.C.VIII.004 .r	Ethylenediaminedinitrate; EDDN	20829-66-7	2920.90.70
Annex VII Part A X.C.VIII.004 .s	Pentaerythritoltetranitrate; PETN	78-11-5	2920.90.70
Annex VII Part A X.C.VIII.004 .t	Basic lead styphnate	12403-82-6	2908.99.00
Annex VII Part A X.C.VIII.004 .t	Lead azide	13424-46-9	2850.00.60
Annex VII Part A X.C.VIII.004 .t	Normal lead styphnate	15245-44-0	2908.99.00
Annex VII Part A X.C.VIII.004 .w	Diethyldiphenylurea	85-98-3	2924.21.00
Annex VII Part A X.C.VIII.004 .w	Dimethyldiphenylurea	611-92-7	2924.21.00

Reference	Chemical name	CAS number	CN code ¹
Annex VII Part A X.C.VIII.004 .w	Methylethyldiphenyl urea	N/A	2924.21.00
Annex VII Part A X.C.VIII.004 .x	N,N-diphenylurea (unsymmetrical diphenylurea)	603-54-3	2924.21.00
Annex VII Part A X.C.VIII.004 .y	Methyl-N,N-diphenylurea (methyl unsymmetrical diphenylurea)	13114-72-2	2924.21.00
Annex VII Part A X.C.VIII.004 .z	Ethyl-N,N-diphenylurea (ethyl unsymmetrical diphenylurea)	64544-71-4	2924.21.00
Annex VII Part A X.C.VIII.004 .bb	4-Nitrodiphenylamine; 4-NDPA	836-30-6	2921.44.00
Annex VII Part A X.C.VIII.004 .cc	2,2-dinitropropanol	918-52-5	2905.59.98
Annex VII Part A X.C.VIII.005.a	Toluene Diisocyanate	584-84-9	2929.10.00
Annex VII Part A X.C.VIII.005.a	Toluene Diisocyanate	91-08-7	2929.10.00
Annex VII Part A X.C.VIII.005.a	Toluene Diisocyanate	26471-62-5	2929.10.00
Annex VII Part A X.C.VIII.005.b	Methyl Diphenyl Diisocyanate	101-68-8	2929.10.00
Annex VII Part A X.C.VIII.005.c	Isophorone Diisocyanate	4098-71-9	2929.10.00
Annex VII Part A X.C.VIII.005.d	Xylidine	87-59-2	2921.49.00
Annex VII Part A X.C.VIII.005.d	Xylidine	95-68-1	2921.49.00
Annex VII Part A X.C.VIII.005.d	Xylidine	95-78-3	2921.49.00
Annex VII Part A X.C.VIII.005.d	Xylidine	87-62-7	2921.49.00
Annex VII Part A X.C.VIII.005.d	Xylidine	95-63-6	2921.49.00
Annex VII Part A X.C.VIII.005.d	Xylidine	108-69-0	2921.49.00
Annex VII Part A X.C.VIII.005.e	Hydroxy Terminated Polyether; HTPE	N/A	3907.29.20

Reference	Chemical name	CAS number	CN code¹
Annex VII Part A X.C.VIII.005.f	Hydroxy Terminated Caprolactone Ether; HTCE	N/A	3907.29.20
Annex VII Part A X.C.VIII.005.f	Hydroxy Terminated Caprolactone Ether; HTCE	N/A	3907.99.80
Annex VII Part A X.C.VIII.005.g	Methyl trichlorosilane	75-79-6	2931.90.00
Annex VII Part A X.C.VIII.005.h.1	Ethylenediaminetetraacetic acid (EDTA)	60-00-4	2922.49.85
Annex VII Part A X.C.VIII.005.h.2	Disodium salt of EDTA	139-33-3	2922.49.85
Annex VII Part A X.C.VIII.005.h.2	Disodium salt of EDTA	6381-92-6	2922.49.85
Annex VII Part A X.C.VIII.005.h.3	Tetrasodium salt of EDTA	64-02-8	2922.49.85
Annex VII Part A X.A.IX.001	o-chlorobenzalmalononitrile; CS	2698-41-1	2926.90.70
Annex VII Part A X.A.IX.001	o-Chloroacetophenone; CN	2142-68-9	2914.79.00
Annex VII Part A X.A.IX.001	m-Chloroacetophenone; CN	99-02-5	2914.79.00
Annex VII Part A X.A.IX.001	p-Chloroacetophenone; CN	99-91-2	2914.79.00
Annex VII Part A X.C.IX.001.a.1	Ethylene dichloride	107-06-2	2903.15.00
Annex VII Part A X.C.IX.001.a.2	Nitromethane	75-52-5	2904.20.00
Annex VII Part A X.C.IX.001.a.3	Picric acid	88-89-1	2908.99.00
Annex VII Part A X.C.IX.001.a.4	Aluminium chloride	7446-70-0	2827.32.00
Annex VII Part A X.C.IX.001.a.5	Arsenic	7440-38-2	2804.80.00
Annex VII Part A X.C.IX.001.a.6	Arsenic trioxide	1327-53-3	2811.29.10
Annex VII Part A X.C.IX.001.a.7	Bis(2-chloroethyl)ethylamine hydrochloride	3590-07-6	2921.19.99

Reference	Chemical name	CAS number	CN code ¹
Annex VII Part A X.C.IX.001.a.8	Bis(2-chloroethyl)methylamine hydrochloride	55-86-7	2921.19.99
Annex VII Part A X.C.IX.001.a.9	Tris(2-chloroethyl)amine hydrochloride	817-09-4	2921.19.99
Annex VII Part A X.C.IX.001.a.10	Tributylphosphite	102-85-2	2920.29.00
Annex VII Part A X.C.IX.001.a.11	Isocyanatomethane	624-83-9	2929.10.00
Annex VII Part A X.C.IX.001.a.12	Quinaldine	91-63-4	2933.49.90
Annex VII Part A X.C.IX.001.a.13	2-bromochloroethane	107-04-0	2903.79.30
Annex VII Part A X.C.IX.001.a.14	Benzil	134-81-6	2914.39.00
Annex VII Part A X.C.IX.001.a.15	Diethyl ether	60-29-7	2909.11.00
Annex VII Part A X.C.IX.001.a.16	Dimethyl ether	115-10-6	2909.19.90
Annex VII Part A X.C.IX.001.a.17	Dimethylaminoethanol	108-01-0	2922.19.00
Annex VII Part A X.C.IX.001.a.18	2-methoxyethanol	109-86-4	2909.44.00
Annex VII Part A X.C.IX.001.a.19	Butyrylcholinesterase; BCHE	9001-08-5	3507.90.90
Annex VII Part A X.C.IX.001.a.20	Diethylenetriamine	111-40-0	2921.29.00
Annex VII Part A X.C.IX.001.a.21	Dichloromethane	75-09-2	2903.12.00
Annex VII Part A X.C.IX.001.a.22	Dimethylalanine	121-69-7	2921.42.00
Annex VII Part A X.C.IX.001.a.23	Ethyl bromide	74-96-4	2903.69.19
Annex VII Part A X.C.IX.001.a.24	Ethyl chloride	75-00-3	2903.11.00
Annex VII Part A X.C.IX.001.a.25	Ethylamine	75-04-7	2921.19.99
Annex VII Part A X.C.IX.001.a.26	Hexamine	100-97-0	2933.69.40
Annex VII Part A X.C.IX.001.a.27	Isopropanol	67- 63-0	2905.12.00

Reference	Chemical name	CAS number	CN code¹
Annex VII Part A X.C.IX.001.a.28	Isopropyl bromide	75-26-3	2903.69.19
Annex VII Part A X.C.IX.001.a.29	Isopropyl ether	108-20-3	2909.19.90
Annex VII Part A X.C.IX.001.a.30	Methylamine	74-89-5	2921.11.00
Annex VII Part A X.C.IX.001.a.31	Methyl bromide	74-83-9	2903.61.00
Annex VII Part A X.C.IX.001.a.32	Monoisopropylamine	75-31-0	2921.19.99
Annex VII Part A X.C.IX.001.a.33	Obidoxime chloride	114-90-9	2933.39.99
Annex VII Part A X.C.IX.001.a.34	Potassium bromide	7758-02-3	2827.51.00
Annex VII Part A X.C.IX.001.a.35	Pyridine	110-86-1	2933.31.00
Annex VII Part A X.C.IX.001.a.36	Pyridostigmine bromide	101-26-8	2933.39.10
Annex VII Part A X.C.IX.001.a.37	Sodium bromide	7647-15-6	2827.51.00
Annex VII Part A X.C.IX.001.a.38	Sodium metal	7440-23-5	2805.11.00
Annex VII Part A X.C.IX.001.a.39	Tributylamine	102-82-9	2921.19.99
Annex VII Part A X.C.IX.001.a.40	Triethylamine	121-44-8	2921.19.99
Annex VII Part A X.C.IX.001.a.41	Trimethylamine	75-50-3	2921.11.00
Annex VII Part A X.C.IX.001.b.1	Acetone	67-64-1	2914.11.00
Annex VII Part A X.C.IX.001.b.2	Acetylene	74-86-2	2901.29.00
Annex VII Part A X.C.IX.001.b.3	Ammonia	7664-41-7	2814.10.00
Annex VII Part A X.C.IX.001.b.4	Antimony	7440-36-0	8110 (heading)
Annex VII Part A X.C.IX.001.b.5	Benzaldehyde	100-52-7	2912.21.00
Annex VII Part A X.C.IX.001.b.6	Benzoin	119-53-9	2914.40.90

Reference	Chemical name	CAS number	CN code ¹
Annex VII Part A X.C.IX.001.b.7	1-Butanol	71-36-3	2905.13.00
Annex VII Part A X.C.IX.001.b.8	2-Butanol	78-92-2	2905.14.90
Annex VII Part A X.C.IX.001.b.9	Iso-Butanol	78-83-1	2905.14.90
Annex VII Part A X.C.IX.001.b.10	tert-Butanol	75-65-0	2905.14.10
Annex VII Part A X.C.IX.001.b.11	Calcium carbide	75-20-7	2849.10.00
Annex VII Part A X.C.IX.001.b.12	Carbon monoxide	630-08-0	2811.29.90
Annex VII Part A X.C.IX.001.b.13	Chlorine	7782-50-5	2801.10.00
Annex VII Part A X.C.IX.001.b.14	Cyclohexanol	108-93-0	2906.12.00
Annex VII Part A X.C.IX.001.b.15	Dicyclohexylamine	101-83-7	2921.30.99
Annex VII Part A X.C.IX.001.b.16	Ethanol	64-17-5	2207.10.00
Annex VII Part A X.C.IX.001.b.17	Ethylene	74-85-1	2901.21.00
Annex VII Part A X.C.IX.001.b.18	Ethylene oxide	75-21-8	2910.10.00
Annex VII Part A X.C.IX.001.b.19	Fluoroapatite	1306-05-4	2835.39.00
Annex VII Part A X.C.IX.001.b.20	Hydrogen chloride	7647-01-0	2806.10.00
Annex VII Part A X.C.IX.001.b.21	Hydrogen sulfide	7783-06-4	2811.19.80
Annex VII Part A X.C.IX.001.b.22	Mandelic acid	90-64-2	2918.19.98
Annex VII Part A X.C.IX.001.b.23	Methanol	67-56-1	2905.11.00
Annex VII Part A X.C.IX.001.b.24	Methyl chloride	74-87-3	2903.11.00
Annex VII Part A X.C.IX.001.b.25	Methyl iodide	74-88-4	2903.69.80
Annex VII Part A X.C.IX.001.b.26	Methyl mercaptan	74-93-1	2930.90.95

Reference	Chemical name	CAS number	CN code¹
Annex VII Part A X.C.IX.001.b.27	Monoethyleneglycol	107-21-1	2905.31.00
Annex VII Part A X.C.IX.001.b.28	Oxalyl chloride	79-37-8	2917.19.80
Annex VII Part A X.C.IX.001.b.29	Potassium sulphide	1312-73-8	2830.90.85
Annex VII Part A X.C.IX.001.b.30	Potassium thiocyanate	333-20-0	2842.90.80
Annex VII Part A X.C.IX.001.b.31	Sodium hypochlorite	7681-52-9	2828.90.00
Annex VII Part A X.C.IX.001.b.32	Sulphur	7704-34-9	2802.00.00
Annex VII Part A X.C.IX.001.b.33	Sulphur dioxide	7446-09-5	2811.29.05
Annex VII Part A X.C.IX.001.b.34	Sulphur trioxide	7446-11-9	2811.29.10
Annex VII Part A X.C.IX.001.b.35	Thiophosphoryl chloride	3982-91-0	2853.90.90
Annex VII Part A X.C.IX.001.b.36	Tri-isobutyl phosphite	1606-96-8	2920.29.00
Annex VII Part A X.C.IX.001.b.37	White phosphorus	12185-10-3	2804.70.90
Annex VII Part A X.C.IX.001.b.38	Yellow phosphorus	7723-14-0	2804.70.90
Annex VII Part A X.C.IX.001.b.39	Mercury	7439-97-6	2805.40.00
Annex VII Part A X.C.IX.001.b.40	Barium chloride	10361-37-2	2827.39.85
Annex VII Part A X.C.IX.001.b.41	Sulphuric acid	7664-93-9	2807.00.00
Annex VII Part A X.C.IX.001.b.42	3,3-dimethyl-1-butene	558-37-2	2901.29.00
Annex VII Part A X.C.IX.001.b.43	2,2-dimethylpropanal	630-19-3	2912.19.00
Annex VII Part A X.C.IX.001.b.44	2,2-dimethylpropylchloride	753-89-9	2903.19.00
Annex VII Part A X.C.IX.001.b.45	2-methylbutene	26760-64-5	2901.29.00
Annex VII Part A X.C.IX.001.b.46	2-chloro-3-methylbutane	631-65-2	2903.19.00

Reference	Chemical name	CAS number	CN code¹
Annex VII Part A X.C.IX.001.b.47	2,3-dimethyl-2,3-butanediol	76-09-5	2905.39.95
Annex VII Part A X.C.IX.001.b.48	2-methyl-2-butene	513-35-9	2901.29.00
Annex VII Part A X.C.IX.001.b.49	Butyl lithium	109-72-8	2931.90.00
Annex VII Part A X.C.IX.001.b.50	Bromo(methyl)magnesium	75-16-1	2931.90.00
Annex VII Part A X.C.IX.001.b.51	Formaldehyde	50-00-0	2912.11.00
Annex VII Part A X.C.IX.001.b.52	Diethanolamine	111-42-2	2922.12.00
Annex VII Part A X.C.IX.001.b.53	Dimethylcarbonate	616-38-6	2920.90.10
Annex VII Part A X.C.IX.001.b.54	Methyldiethanolamine hydrochloride	54060-15-0	2922.19.00
Annex VII Part A X.C.IX.001.b.55	Diethylamine hydrochloride	660-68-4	2921.19.50
Annex VII Part A X.C.IX.001.b.56	Diisopropylamine hydrochloride	819-79-4	2921.19.99
Annex VII Part A X.C.IX.001.b.57	3-Quinuclidinone hydrochloride	1193-65-3	2933.39.99
Annex VII Part A X.C.IX.001.b.58	3-Quinuclidinol hydrochloride	6238-13-7	2933.39.99
Annex VII Part A X.C.IX.001.b.59	(R)-3- Quinuclidinol hydrochloride	42437-96-7	2933.39.99
Annex VII Part A X.C.IX.001.b.60	N,N-Diethylaminoethanol hydrochloride	14426-20-1	2922.19.00
Annex VII Part A X.C.IX.001.b.63	N,N-Methylisopropylacetamidine	1339185-57-7	2925.29.00
Annex VII Part A X.C.IX.001.b.64	N,N-Methylethylacetamidine	1339632-40-4	2925.29.00
Annex VII Part A X.C.IX.001.b.65	N,N-Ethylisopropylacetamidine	1339156-10-3	2925.29.00
Annex VII Part A X.C.IX.001.b.66	N,N-Methylpropylacetamidine	1344238-28-3	2925.29.00
Annex VII Part A X.C.IX.001.b.67	N,N-Ethylpropylacetamidine	1339737-43-7	2925.29.00
Annex VII Part A X.C.IX.001.b.68	N,N-Isopropylpropylacetamidine	1341389-98-7	2925.29.00

Reference	Chemical name	CAS number	CN code ¹
Annex VII Part A X.C.IX.001.b.69	N,N-Methylethylpropanamidine	1339424-26-8	2925.29.00
Annex VII Part A X.C.IX.001.b.70	N,N-Ethylisopropylpropanamidine	1344354-09-1	2925.29.00
Annex VII Part A X.C.IX.001.b.71	N,N-Methylpropylpropanamidine	1340216-25-2	2925.29.00
Annex VII Part A X.C.IX.001.b.72	N,N-Ethylpropylpropanamidine	1341493-60-4	2925.29.00
Annex VII Part A X.C.IX.001.b.73	N,N-Isopropylpropylpropanamidine	1343225-93-3	2925.29.00
Annex VII Part A X.C.IX.001.b.74	N,N-Methylisopropylpropanamidine	1339042-55-5	2925.29.00
Annex VII Part A X.C.IX.001.b.75	N,N-Methylethylbutanamidine	1341049-51-1	2925.29.00
Annex VII Part A X.C.IX.001.b.76	N,N-Methylpropylbutanamidine	1343721-02-7	2925.29.00
Annex VII Part A X.C.IX.001.b.77	N,N-Ethylpropylbutanamidine	1343806-12-1	2925.29.00
Annex VII Part A X.C.IX.001.b.78	N,N-Isopropylpropylbutanamidine	1343316-02-8	2925.29.00
Annex VII Part A X.C.IX.001.b.79	N,N-Methylisopropylbutanamidine	1340219-94-4	2925.29.00
Annex VII Part A X.C.IX.001.b.80	N,N-Ethylisopropylbutanamidine	1342204-10-7	2925.29.00
Annex VII Part A X.C.IX.001.b.81	N,N-Methylethylisobutanamidine	1342365-47-2	2925.29.00
Annex VII Part A X.C.IX.001.b.82	N,N-Ethylpropylisobutanamidine	1342566-58-8	2925.29.00
Annex VII Part A X.C.IX.001.b.83	N,N-Methylpropylisobutanamidine	1342270-21-6	2925.29.00
Annex VII Part A X.C.IX.001.b.84	N,N-Isopropylpropylisobutanamidine	1342156-11-9	2925.29.00
Annex VII Part A X.C.IX.001.b.85	N,N-Methylisopropylisobutanamidine	1341992-96-8	2925.29.00
Annex VII Part A X.C.IX.001.b.86	N,N-Ethylisopropylisobutanamidine	1339048-76-8	2925.29.00
Annex VII Part A X.C.IX.001.b.87	N,N-Dimethylacetamidine hydrobromide	1801188-12-4	2925.29.00
Annex VII Part A X.C.IX.001.b.88	N,N-Dimethylacetamidine hydrochloride	2909-15-1	2925.29.00

Reference	Chemical name	CAS number	CN code ¹
Annex VII Part A X.C.IX.001.b.89	N,N-Diethylacetamide hydrochloride	91400-32-7	2925.29.00
Annex VII Part A X.C.IX.001.b.90	N,N-Diethylacetamide hydrobromide	78053-54-0	2925.29.00
Annex VII Part A X.C.IX.001.b.91	N,N-Dimethylpropanamide dihydrochloride	79972-73-9	2925.29.00
Annex VII Part A X.C.IX.001.b.92	N,N-Dimethylpropanamide hydrochloride	56776-15-9	2925.29.00
Annex VII Part A X.C.IX.001.b.93	Chloroform	67-66-3	2903.13.00
Annex VII Part A X.C.IX.002	Fentanyl	437-38-7	2933.33.00
Annex VII Part A X.C.IX.002	Fentanyl hydrochloride	1443-54-5	2933.33.00
Annex VII Part A X.C.IX.002	Fentanyl citrate	990-73-8	2933.33.00
Annex VII Part A X.C.IX.001.b.93	Alfentanil	71195-58-9	2933.33.00
Annex VII Part A X.C.IX.001.b.93	Sufentanil	56030-54-7	2934.91.00
Annex VII Part A X.C.IX.001.b.93	Remifentanil	132875-61-7	2933.33.00
Annex VII Part A X.C.IX.001.b.93	Carfentanil	59708-52-0	2933.33.00
Annex VII Part A X.C.IX.003.a	4-anilino-N-phenethylpiperidine	21409-26-7	2933.36.00
Annex VII Part A X.C.IX.003.b	N-phenethyl-4-piperidone	39742-60-4	2933.37.00
Annex VII Part A X.C.IX.006.m	Nitrogen trifluoride; NF ₃	7783-54-2	2812.90.00
Annex VII Part A X.C.IX.009.d	Tributyl phosphate	126-73-8	2919.90.00
Annex VII Part A X.C.IX.009.e	Nitric acid	7697-37-2	2808.00.00
Annex VII Part A X.C.IX.009.f	Fluorine	7782-41-4	2801.30.10
Annex VII Part A X.C.IX.011.c.1	Carbon Nanotubes	308068-56-6	2803.00.00

Reference	Chemical name	CAS number	CN code¹
Annex VII Part A X.C.IX.011.c.3	Fullerene C ₆₀	99685-96-8	2803.00.00
Annex VII Part A X.C.IX.011.c.3	Fullerene C ₇₀	115383-22-7	2803.00.00
Annex VII Part A X.C.IX.011.c.3	Fullerene C ₇₆	142136-39-8	2803.00.00
Annex VII Part A X.C.IX.014.a	Lithium	7439-93-2	2805.19.90
Annex VII Part A X.C.IX.014.b	Lithium carbonate	554-13-2	2836.91.00
Annex VII Part A X.C.IX.014.c	Lithium hydroxide	1310-65-2	2825.20.00
Annex VII Part A X.C.IX.014.c	Lithium hydroxide monohydrate	1310-66-3	2825.20.00
Annex VII Part A X.C.IX.014.d	Lithium oxide	12057-24-8	2825.20.00
Annex VII Part A X.C.IX.014.e	Lithium cobalt oxide	12190-79-3	2841.90.85
Annex VII Part A X.C.IX.014.f	Lithium iron phosphate	15365-14-7	2835.29.90
Annex VII Part A X.C.IX.014.g	Lithium manganese oxide	12057-17-9	2841.90.85
Annex VII Part A X.C.IX.014.h	Lithium nickel manganese cobalt oxide	346417-97-8	2841.90.85
Annex VII Part A X.C.IX.014.i	Lithium titanate	12031-82-2	2841.90.85
Annex VII Part B 6	Boron	7440-42-8	2804.50.10
Annex VII Part B 6	Sodium chlorate	7775-09-9	2829.11.00
Annex VII Part B 6	Potassium chlorate; KClO ₃	3811-04-9	2829.19.00
Annex VII Part B 6	Sodium bromate; NaBrO ₃	7789-38-0	2829.90.40
Annex VII Part B 6	Potassium bromate; KBrO ₃	7758-01-2	2829.90.40
Annex VII Part B 6	Sodium iodate; NaIO ₃	7681-55-2	2829.90.80

Reference	Chemical name	CAS number	CN code¹
Annex VII Part B 6	Potassium iodate; KIO ₃	7758-05-6	2829.90.80
Annex VII Part B 6	Sodium perchlorate; NaClO ₄	7601-89-0	2829.90.10
Annex VII Part B 6	Potassium perchlorate; KClO ₄	7778-74-7	2829.90.10
Annex VII Part B 6	Sodium perbromate; NaBrO ₄	33497-30-2	2829.90.80
Annex VII Part B 6	Potassium perbromate; KBrO ₄	22207-96-1	2829.90.80
Annex VII Part B 6	Sodium periodate; NaIO ₄	7790-28-5	2829.90.80
Annex VII Part B 6	Sodium periodate; Na ₃ H ₂ IO ₆	13940-38-0	2829.90.80
Annex VII Part B 6	Sodium periodate; Na ₂ H ₃ IO ₆	15599-97-0	2829.90.80
Annex VII Part B 6	Potassium periodate; KIO ₄	7790-21-8	2829.90.80
Annex VII Part B 6	Non-plasticised cellulose acetates, in primary forms	N/A	3912.11.00
Annex VII Part B 6	Plasticised cellulose acetates, in primary forms	N/A	3912.12.00
Annex VII Part B 6	Cellulose ethers, in primary forms (excl. carboxymethylcellulose and its salts)	N/A	3912.39 (subheading)
Annex VII Part B 6	Aluminium powders of non-lamellar structure	7429-90-5	7603.10.00
Annex VII Part B 6	Aluminium powders of lamellar structure; flakes	7429-90-5	7603.20.00
Annex VII Part B 6	Magnesium powders	7439-95-4	8104 30 00
Annex VII Part B 8	Chromium powders	7440-47-3	8112.21 (subheading)
Annex VII Part B 8	Chromium trioxide	1333-82-0	2819.10.00

Reference	Chemical name	CAS number	CN code¹
Annex VII Part B 8	Chromium dioxide	12018-01-8	2819.90.10
Annex VII Part B 8	Chromium (III) hydroxide	1308-14-1	2819.90.90
Annex VII Part B 8	Antimony oxides	N/A	2825.80.00
Annex VII Part B 8	Rhenium powders	7440-15-5	8112.41.90
Annex XXIII	Fluorine, chlorine, bromine and iodine	N/A	2801 (heading)
Annex XXIII	Sulphur, sublimed or precipitated; colloidal sulphur	N/A	2802 (heading)
Annex XXIII	Carbon (carbon blacks and other forms of carbon not elsewhere specified or included)	N/A	2803 (heading)
Annex XXIII	Hydrogen, rare gases and other non-metals	N/A	2804 (heading)
Annex XXIII	Hydrogen chloride 'hydrochloric acid'; chlorosulphuric acid	N/A	2806 (heading)
Annex XXIII	Other inorganic acids and other inorganic oxygen compounds of non-metals	N/A	2811 (heading)
Annex XXIII	Sulphides of non-metals; commercial phosphorus trisulphide	N/A	2813 (heading)
Annex XXIII	Ammonia, anhydrous or in aqueous solution	N/A	2814 (heading)
Annex XXIII	Sodium hydroxide (caustic soda), potassium hydroxide (caustic potash); peroxides of sodium or potassium	N/A	2815 (heading)
Annex XXIII	Zinc oxide; zinc peroxide	N/A	2817 (heading)
Annex XXIII	Aluminium hydroxide	N/A	2818.30 (subheading)
Annex XXIII	Chromium oxides and hydroxides	N/A	2819 (heading)
Annex XXIII	Manganese oxides	N/A	2820 (heading)

Reference	Chemical name	CAS number	CN code ¹
Annex XXIII	Iron oxides and hydroxides; earth colours containing 70 % or more by weight of combined iron evaluated as Fe ₂ O ₃	N/A	2821 (heading)
Annex XXIII	Cobalt oxides and hydroxides; commercial cobalt oxides	N/A	2822 (heading)
Annex XXIII	Titanium oxides	N/A	2823 (heading)
Annex XXIII	Hydrazine and hydroxylamine and their inorganic salts; inorganic bases, metal oxides, hydroxides and peroxides, n.e.s.	N/A	2825 (heading)
Annex XXIII	Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides	N/A	2827 (heading)
Annex XXIII	Hypochlorites; commercial calcium hypochlorite; chlorites; hypobromites	N/A	2828 (heading)
Annex XXIII	Chlorates and perchlorates; bromates and perbromates; iodates and periodates	N/A	2829 (heading)
Annex XXIII	Sulphites (excluding sodium)	N/A	283220 (subheading)
Annex XXIII	Sulphates; alums; peroxosulphates (persulphates)	N/A	2833 (heading)
Annex XXIII	Nitrites; nitrates	N/A	2834 (heading)
Annex XXIII	Phosphinates (hypophosphites), phosphonates (phosphites) and phosphates; polyphosphates, whether or not chemically defined	N/A	2835 (heading)
Annex XXIII	Carbonates; peroxocarbonates (percarbonates); commercial ammonium carbonate containing ammonium carbamate	N/A	2836 (heading)
Annex XXIII	Silicates; commercial alkali metal silicates	N/A	2839 (heading)
Annex XXIII	Borates; Peroxoborates (perborates)	N/A	2840 (heading)

Reference	Chemical name	CAS number	CN code¹
Annex XXIII	Salts of oxometallic or peroxometallic acids	N/A	2841 (heading)
Annex XXIII	Colloidal precious metals; inorganic or organic compounds of precious metals, whether or not chemically defined; amalgams of precious metals	N/A	2843 (heading)
Annex XXIII	Compounds, inorganic or organic, of rare-earth metals, of yttrium or of scandium or of mixtures of these metals	N/A	2846 (heading)
Annex XXIII	Hydrogen peroxide, whether or not solidified with urea	N/A	2847 (heading)
Annex XXIII	Acyclic hydrocarbons	N/A	2901 (heading)
Annex XXIII	Cyclic hydrocarbons	N/A	2902 (heading)
Annex XXIII	Halogenated derivatives of hydrocarbons	N/A	2903 (heading)
Annex XXIII	Sulphonated, nitrated or nitrosated derivatives of hydrocarbons, whether or not halogenated	N/A	2904 (heading)
Annex XXIII	Acyclic alcohols and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2905 (heading)
Annex XXIII	Cyclic alcohols and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2906 (heading)
Annex XXIII	Phenols; phenol-alcohols	N/A	2907 (heading)
Annex XXIII	Ethers, ether-alcohols, ether-phenols, ether-alcohol-phenols, alcohol peroxides, ether peroxide, ketone peroxides, whether or not chemically defined, and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2909 (heading)
Annex XXIII	Epoxides, epoxyalcohols, epoxyphenols and epoxyethers, with a three-membered ring, and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2910 (heading)

Reference	Chemical name	CAS number	CN code¹
Annex XXIII	Acetals and hemiacetals, whether or not with other oxygen function, and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2911 (heading)
Annex XXIII	Aldehydes, whether or not with other oxygen function; cyclic polymers of aldehydes; para- formaldehyde	N/A	2912 (heading)
Annex XXIII	Ketones and quinones, whether or not with other oxygen function, and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2914 (heading)
Annex XXIII	Saturated acyclic monocarboxylic acids and their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2915 (heading)
Annex XXIII	Unsaturated acyclic monocarboxylic acids, cyclic monocarboxylic acids, their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2916 (heading)
Annex XXIII	Polycarboxylic acids, their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2917 (heading)
Annex XXIII	Carboxylic acids with additional oxygen function and their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2918 (heading)
Annex XXIII	Esters of inorganic acids of non-metals (excluding esters of hydrogen halides) and their salts; their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2920 (heading)
Annex XXIII	Amine-function compounds	N/A	2921 (heading)
Annex XXIII	Oxygen-function amino-compounds	N/A	2922 (heading)

Reference	Chemical name	CAS number	CN code ¹
Annex XXIII	Quaternary ammonium salts and hydroxides; lecithins and other phosphoaminolipids, whether or not chemically defined	N/A	2923 (heading)
Annex XXIII	Carboxamide-function compounds; amide-function compounds of carbonic acid	N/A	2924 (heading)
Annex XXIII	Carboxyimide-function compounds (including saccharin and its salts) and imine-function compounds	N/A	2925 (heading)
Annex XXIII	Nitrile-function compounds	N/A	2926 (heading)
Annex XXIII	Compounds with other nitrogen function	N/A	2929 (heading)
Annex XXIII	Organo-sulphur compounds	N/A	2930 (heading)
Annex XXIII	Heterocyclic compounds with nitrogen hetero-atom(s) only, containing an unfused imidazole ring (whether or not hydrogenated) in the structure (excluding hydantoin and its derivatives, and products of subheading 3002.10)	N/A	2933.29 (subheading)
Annex XXIII	Other derivatives of malonylurea (barbituric acid); salts thereof	N/A	2933.54 (subheading)
Annex XXIII	6-Hexanelactam (epsilon-caprolactam)	N/A	2933.71 (subheading)
Annex XXIII	Lactams (excl. 6-hexanelactam 'epsilon-caprolactam', clobazam (inn), methypylon (inn), and inorganic or organic compounds of mercury)	N/A	2933.79 (subheading)

Reference	Chemical name	CAS number	CN code ¹
Annex XXIII	Heterocyclic compounds with nitrogen hetero-atom[s] only (excl. those containing an unfused pyrazole, imidazole, pyridine or triazine ring, whether or not hydrogenated, a quinoline or isoquinoline ring-system, not further fused, whether or not hydrogenated, a pyrimidine ring, whether or not hydrogenated, or piperazine ring in the structure, and lactams, alprazolam (inn), camazepam (inn), chlordiazepoxide (inn), clonazepam (inn), clorazepate, delorazepam (inn), diazepam (inn), estazolam (inn), ethyl loflazepate (inn), fludiazepam (inn), flunitrazepam (inn), flurazepam (inn), halazepam (inn), lorazepam (inn), lormetazepam (inn), mazindol (inn), medazepam (inn), midazolam (inn), nimetazepam (inn), nitrazepam (inn), nordazepam (inn), oxazepam (inn), pinazepam (inn), prazepam (inn), pyrovalerone (inn), temazepam (inn), tetrazepam (inn) and triazolam (inn), salts thereof and azinphos-methyl (iso))	N/A	2933.99 (subheading)
Annex XXIII	Glycosides, natural or reproduced by synthesis, and their salts, ethers, esters and other derivatives	N/A	2938 (heading)
Annex XXIII	Sugars, chemically pure, other than sucrose, lactose, maltose, glucose and fructose; sugar ethers, sugar acetals and sugar esters, and their salts, other than products of heading 2937, 2938 or 2939	N/A	2940 (heading)

¹ in bold new chemicals or new CN codes.

Source: European Commission.

2.8.6 Belarus

Restrictive measures against the President and certain officials of Belarus are in place since 2006 through Council Regulation (EU) No 765/2006. In 2011, a total ban was established for strategic equipment which might be used for internal repression (Annex III) in addition to the goods and technology listed in the Common Military List of the European Union (see paragraph 2.3) for all the end-users.

Since 9 March 2022, Council Regulation (EU) No 765/2006 concerns restrictive measures in view of the situation in Belarus and the involvement of Belarus in the Russian aggression against Ukraine.⁶⁵ From that time on, the measures adopted versus Belarus follow closely those taken versus Russia. On 3 August 2023, it has been prohibited the export of dual-use items to all end-users in Belarus as well as the export of goods and technology which might contribute to Belarus's military and technological enhancement, or to the development of its defence and security sector (listed in Annex Va).

On June 29, 2024, the export restrictive measures were extended to goods which could contribute in particular to the enhancement of Belarusian industrial capacities (Annex XVIII).

In 2025, further goods and technologies have been added to the Annexes Va and Annex XVIII of Regulation No 765/2006. Consequently, Annex XVIII lists large groups of products sharing the same HS heading (see paragraph 1.2.1).

Table 19 provides the inventory of:

- the chemical substances listed in the Annexes III and Va;
- the groups of chemicals listed in Annex XVIII referring only the two Chapters 28 and 29 of the HS devoted to pure chemicals.

⁶⁵ Council Regulation (EC) No 765/2006 of 18 May 2006 concerning restrictive measures against President Lukashenko and certain officials of Belarus, <https://eur-lex.europa.eu/eli/reg/2006/765/oj/eng>

Table 19. Chemicals subject to the restrictive measures against Belarus under Council Regulation (EU) No 765/2006.

Reference	Chemical name	CAS number	CN code ¹
Annex III 4.3 (a)	Ammonium nitrate (component of Amatol)	6484-52-2	3102.30 (subheading)
Annex III 4.3 (b)	Nitrocellulose	9004-70-0	3912.20.19
Annex III 4.3 (c)	Nitroglycol	628-96-6	2920.90.70
Annex III 4.3 (d)	Pentaerythritol tetranitrate; PETN	78-11-5	2920.90.70
Annex III 4.3 (e)	Picryl chloride	88-88-0	2904.99.00
Annex III 4.3 (f)	2,4,6-trinitrotoluene; TNT (component of Amatol)	118-96-7	2904.20.00
Annex Va part A X.C.I.002c.1	Ferric chloride	7705-08-0	2827.39.20
Annex Va part A X.C.I.002c.2	Cupric chloride	7447-39-4	2827.39.85
Annex Va part A X.C.I.002c.3	Ammonium persulphate	7727-54-0	2833.40.00
Annex Va part A X.C.I.002c.4	Sodium persulphate	7775-27-1	2833.40.00
Annex Va part A X.A.VIII.021.b	Pelargonic acid vanillylamide; PAVA	2444-46-4	2939.79.90
Annex Va part A X.A.VIII.021.c	Oleoresin capsicum; OC	8023-77-6	3301.90.30
Annex Va part A X.A.VIII.021.c	Oleoresin capsicum; OC	8023-77-6	1302.19.70
Annex Va part A X.A.VIII.021.g.1	Dibenzo[b,f][1,4]oxazepine; CR	257-07-8	2934.99.90
Annex Va part A X.A.VIII.021.g.2	8-Methyl-N-vanillyl-trans-6-nonenamide; Capsaicin	404-86-4	2939.79.90
Annex Va part A X.A.VIII.021.g.3	8-Methyl-N-vanillylnonamide; Dihydrocapsaicin	19408-84-5	2939.79.90
Annex Va part A X.A.VIII.021.g.4	N-Vanillyl-9-methyldec-7-(E)-enamide; Homocapsaicin	58493-48-4	2939.79.90
Annex Va part A X.A.VIII.021.g.5	N-Vanillyl-9-methyldecanamide; Homodihydrocapsaicin	20279-06-5	2939.79.90

Reference	Chemical name	CAS number	CN code ¹
Annex Va part A X.A.VIII.021.g.6	N-Vanillyl-7-methyloctanamide; Nordihydrocapsaicin	28789-35-7	2939.79.90
Annex Va part A X.A.VIII.021.g.7	4-Nonanolmorpholine; MPA	5299-64-9	2934.99.90
Annex Va part A X.A.VIII.021.g.8	Cis-4-acetylamino-dicyclohexylmethane	37794-87-9	2924.29.70
Annex Va part A X.A.VIII.021.g.9	N,N'-Bis(isopropyl)ethylenediimine	4013-94-9	2921.29.00
Annex Va part A X.A.VIII.021.g.10	N,N'-Bis(tert-butyl)ethylenediimine	4062-60-6	2921.29.00
Annex Va part A X.A.VIII.021.h.1	Malononitril	109-77-3	2926.90.70
Annex Va part A X.A.VIII.021.h.2	2-Chlorobenzaldehyde	89-98-5	2913.00.00
Annex Va part A X.A.VIII.021.h.3	2-Chlorobenzyl alcohol	17849-38-6	2906.29.00
Annex Va part A X.A.VIII.021.h.4	2-Chlorobenzylamine	89-97-4	2921.49.00
Annex Va part A X.A.VIII.021.h.5	1-Chloro-2-(dimethoxymethyl)-benzene	70380-66-4	2909.30.90
Annex Va part A X.A.VIII.021.h.6	Acetophenone	98-86-2	2914.39.00
Annex Va part A X.A.VIII.021.h.7	Chloroacetyl chloride	79-04-9	2915.90.70
Annex Va part A X.A.VIII.021.h.8	2-Aminophenol	95-55-6	2922.29.00
Annex Va part A X.A.VIII.022.a.1	Amobarbital	57-43-2	2933.53.90
Annex Va part A X.A.VIII.022.a.2	Amobarbital sodium salt	64-43-7	2933.53.90
Annex Va part A X.A.VIII.022.a.3	Pentobarbital	76-74-4	2933.53.90
Annex Va part A X.A.VIII.022.a.4	Pentobarbital sodium salt	57-33-0	2933.53.90
Annex Va part A X.A.VIII.022.a.5	Secobarbital	76-73-3	2933.53.90
Annex Va part A X.A.VIII.022.a.6	Secobarbital sodium salt	309-43-3	2933.53.90
Annex Va part A X.A.VIII.022.a.7	Thiopental	76-75-5	2933.53.90

Reference	Chemical name	CAS number	CN code ¹
Annex Va part A X.A.VIII.022.a.8	Thiopental sodium salt	71-73-8	2933.53.90
Annex Va part A X.C.VIII.004.a	Ammonium picrate	131-74-8	2908.99.00
Annex Va part A X.C.VIII.004.b	Black powder (Gunpowder)	N/A	3601.00.00
Annex Va part A X.C.VIII.004.c	Hexanitrodiphenylamine	131-73-7	2921.44.00
Annex Va part A X.C.VIII.004.d	Difluoroamine	10405-27-3	2812.90.00
Annex Va part A X.C.VIII.004.e	Nitrostarch	9056-38-6	3505.10.50
Annex Va part A X.C.VIII.004.g	Tetranitronaphthalene	N/A	2902.90.00
Annex Va part A X.C.VIII.004.h	Trinitroanisol	606-35-9	2909.30.90
Annex Va part A X.C.VIII.004.i	Trinitronaphthalene	N/A	2902.90.00
Annex Va part A X.C.VIII.004.j	Trinitroxylene	632-92-8	2904.20.00
Annex Va part A X.C.VIII.004.k	N-pyrrolidinone; 1-methyl-2-pyrrolidinone	872-50-4	2939.79.90
Annex Va part A X.C.VIII.004.l	Diethylmaleate	142-16-5	2917.19.80
Annex Va part A X.C.VIII.004.m	Ethylhexylacrylate	103-11-7	2916.12.00
Annex Va part A X.C.VIII.004.n	Triethylaluminium;	97-93-8	2931.90.00
Annex Va part A X.C.VIII.004.n	Trimethylaluminium	75-24-1	2931.90.00
Annex Va part A X.C.VIII.004.o	Nitrocellulose	9004-70-0	3912.20.19
Annex Va part A X.C.VIII.004.p	Nitroglycerin; NG	55-63-0	2920.90.70
Annex Va part A X.C.VIII.004.q	2,4,6-trinitrotoluene; TNT	118-96-7	2904.20.00
Annex Va part A X.C.VIII.004.r	Ethylenediaminedinitrate; EDDN	20829-66-7	2920.90.70
Annex Va part A X.C.VIII.004.s	Pentaerythritoltetranitrate; PETN	78-11-5	2920.90.70

Reference	Chemical name	CAS number	CN code ¹
Annex Va part A X.C.VIII.004.t	Basic lead styphnate	12403-82-6	2908.99.00
Annex Va part A X.C.VIII.004.t	Lead azide	13424-46-9	2850.00.60
Annex Va part A X.C.VIII.004.t	Normal lead styphnate	15245-44-0	2908.99.00
Annex Va part A X.C.VIII.004.w	Diethyldiphenylurea	85-98-3	2924.21.00
Annex Va part A X.C.VIII.004.w	Dimethyldiphenylurea	611-92-7	2924.21.00
Annex Va part A X.C.VIII.004.w	Methylethyldiphenyl urea	N/A	2924.21.00
Annex Va part A X.C.VIII.004.x	N,N-diphenylurea (unsymmetrical diphenylurea)	603-54-3	2924.21.00
Annex Va part A X.C.VIII.004.y	Methyl-N,N-diphenylurea (methyl unsymmetrical diphenylurea)	13114-72-2	2924.21.00
Annex Va part A X.C.VIII.004.z	Ethyl-N,N-diphenylurea (ethyl unsymmetrical diphenylurea)	64544-71-4	2924.21.00
Annex Va part A X.C.VIII.004.bb	4-Nitrodiphenylamine; 4-NDPA	836-30-6	2921.44.00
Annex Va part A X.C.VIII.004.cc	2,2-dinitropropanol	918-52-5	2905.59.98
Annex Va part A X.C.VIII.005.a	Toluene Diisocyanate	584-84-9	2929.10.00
Annex Va part A X.C.VIII.005.a	Toluene Diisocyanate	91-08-7	2929.10.00
Annex Va part A X.C.VIII.005.a	Toluene Diisocyanate	26471-62-5	2929.10.00
Annex Va part A X.C.VIII.005.b	Methyl Diphenyl Diisocyanate	101-68-8	2929.10.00
Annex Va part A X.C.VIII.005.c	Isophorone Diisocyanate	4098-71-9	2929.10.00
Annex Va part A X.C.VIII.005.d	Xylidine	87-59-2	2921.49.00
Annex Va part A X.C.VIII.005.d	Xylidine	95-68-1	2921.49.00
Annex Va part A X.C.VIII.005.d	Xylidine	95-78-3	2921.49.00

Reference	Chemical name	CAS number	CN code¹
Annex Va part A X.C.VIII.005.d	Xylidine	87-62-7	2921.49.00
Annex Va part A X.C.VIII.005.d	Xylidine	95-63-6	2921.49.00
Annex Va part A X.C.VIII.005.d	Xylidine	108-69-0	2921.49.00
Annex Va part A X.C.VIII.005.e	Hydroxy Terminated Polyether; HTPE	N/A	3907.29.20
Annex Va part A X.C.VIII.005.f	Hydroxy Terminated Caprolactone Ether; HTCE	N/A	3907.29.20
Annex Va part A X.C.VIII.005.f	Hydroxy Terminated Caprolactone Ether; HTCE	N/A	3907.99.80
Annex Va part A X.C.VIII.005.g	Methyl trichlorosilane	75-79-6	2931.90.00
Annex Va part A X.C.VIII.005.h.1	Ethylenediaminetetraacetic acid (EDTA)	60-00-4	2922.49.85
Annex Va part A X.C.VIII.005.h.2	Disodium salt of EDTA	139-33-3	2922.49.85
Annex Va part A X.C.VIII.005.h.2	Disodium salt of EDTA	6381-92-6	2922.49.85
Annex Va part A X.C.VIII.005.h.3	Tetrasodium salt of EDTA	64-02-8	2922.49.85
Annex Va part A X.A.IX.001	o-chlorobenzalmalononitrile; CS	2698-41-1	2926.90.70
Annex Va part A X.A.IX.001	o-Chloroacetophenone; CN	2142-68-9	2914.79.00
Annex Va part A X.A.IX.001	m-Chloroacetophenone; CN	99-02-5	2914.79.00
Annex Va part A X.A.IX.001	p-Chloroacetophenone; CN	99-91-2	2914.79.00
Annex Va part A X.C.IX.001.a.1	Ethylene dichloride	107-06-2	2903.15.00
Annex Va part A X.C.IX.001.a.2	Nitromethane	75-52-5	2904.20.00
Annex Va part A X.C.IX.001.a.3	Picric acid	88-89-1	2908.99.00
Annex Va part A X.C.IX.001.a.4	Aluminium chloride	7446-70-0	2827.32.00

Reference	Chemical name	CAS number	CN code¹
Annex Va part A X.C.IX.001.a.5	Arsenic	7440-38-2	2804.80.00
Annex Va part A X.C.IX.001.a.6	Arsenic trioxide	1327-53-3	2811.29.10
Annex Va part A X.C.IX.001.a.7	Bis(2-chloroethyl)ethylamine hydrochloride	3590-07-6	2921.19.99
Annex Va part A X.C.IX.001.a.8	Bis(2-chloroethyl)methylamine hydrochloride	55-86-7	2921.19.99
Annex Va part A X.C.IX.001.a.9	Tris(2-chloroethyl)amine hydrochloride	817-09-4	2921.19.99
Annex Va part A X.C.IX.001.a.10	Tributylphosphite	102-85-2	2920.29.00
Annex Va part A X.C.IX.001.a.11	Isocyanatomethane	624-83-9	2929.10.00
Annex Va part A X.C.IX.001.a.12	Quinaldine	91-63-4	2933.49.90
Annex Va part A X.C.IX.001.a.13	2-bromochloroethane	107-04-0	2903.79.30
Annex Va part A X.C.IX.001.a.14	Benzil	134-81-6	2914.39.00
Annex Va part A X.C.IX.001.a.15	Diethyl ether	60-29-7	2909.11.00
Annex Va part A X.C.IX.001.a.16	Dimethyl ether	115-10-6	2909.19.90
Annex Va part A X.C.IX.001.a.17	Dimethylaminoethanol	108-01-0	2922.19.00
Annex Va part A X.C.IX.001.a.18	2-methoxyethanol	109-86-4	2909.44.00
Annex Va part A X.C.IX.001.a.19	Butyrylcholinesterase; BCHE	9001-08-5	3507.90.90
Annex Va part A X.C.IX.001.a.20	Diethylenetriamine	111-40-0	2921.29.00
Annex Va part A X.C.IX.001.a.21	Dichloromethane	75-09-2	2903.12.00
Annex Va part A X.C.IX.001.a.22	Dimethylaniline	121-69-7	2921.42.00
Annex Va part A X.C.IX.001.a.23	Ethyl bromide	74-96-4	2903.69.19

Reference	Chemical name	CAS number	CN code¹
Annex Va part A X.C.IX.001.a.24	Ethyl chloride	75-00-3	2903.11.00
Annex Va part A X.C.IX.001.a.25	Ethylamine	75-04-7	2921.19.99
Annex Va part A X.C.IX.001.a.26	Hexamine	100-97-0	2933.69.40
Annex Va part A X.C.IX.001.a.27	Isopropanol	67- 63-0	2905.12.00
Annex Va part A X.C.IX.001.a.28	Isopropyl bromide	75-26-3	2903.69.19
Annex Va part A X.C.IX.001.a.29	Isopropyl ether	108-20-3	2909.19.90
Annex Va part A X.C.IX.001.a.30	Methylamine	74-89-5	2921.11.00
Annex Va part A X.C.IX.001.a.31	Methyl bromide	74-83-9	2903.61.00
Annex Va part A X.C.IX.001.a.32	Monoisopropylamine	75-31-0	2921.19.99
Annex Va part A X.C.IX.001.a.33	Obidoxime chloride	114-90-9	2933.39.99
Annex Va part A X.C.IX.001.a.34	Potassium bromide	7758-02-3	2827.51.00
Annex Va part A X.C.IX.001.a.35	Pyridine	110-86-1	2933.31.00
Annex Va part A X.C.IX.001.a.36	Pyridostigmine bromide	101-26-8	2933.39.10
Annex Va part A X.C.IX.001.a.37	Sodium bromide	7647-15-6	2827.51.00
Annex Va part A X.C.IX.001.a.38	Sodium metal	7440-23-5	2805.11.00
Annex Va part A X.C.IX.001.a.39	Tributylamine	102-82-9	2921.19.99
Annex Va part A X.C.IX.001.a.40	Triethylamine	121-44-8	2921.19.99
Annex Va part A X.C.IX.001.a.41	Trimethylamine	75-50-3	2921.11.00
Annex Va part A X.C.IX.001.b.1	Acetone	67-64-1	2914.11.00

Reference	Chemical name	CAS number	CN code¹
Annex Va part A X.C.IX.001.b.2	Acetylene	74-86-2	2901.29.00
Annex Va part A X.C.IX.001.b.3	Ammonia	7664-41-7	2814.10.00
Annex Va part A X.C.IX.001.b.4	Antimony	7440-36-0	8110 (heading)
Annex Va part A X.C.IX.001.b.5	Benzaldehyde	100-52-7	2912.21.00
Annex Va part A X.C.IX.001.b.6	Benzoin	119-53-9	2914.40.90
Annex Va part A X.C.IX.001.b.7	1-Butanol	71-36-3	2905.13.00
Annex Va part A X.C.IX.001.b.8	2-Butanol	78-92-2	2905.14.90
Annex Va part A X.C.IX.001.b.9	Iso-Butanol	78-83-1	2905.14.90
Annex Va part A X.C.IX.001.b.10	tert-Butanol	75-65-0	2905.14.10
Annex Va part A X.C.IX.001.b.11	Calcium carbide	75-20-7	2849.10.00
Annex Va part A X.C.IX.001.b.12	Carbon monoxide	630-08-0	2811.29.90
Annex Va part A X.C.IX.001.b.13	Chlorine	7782-50-5	2801.10.00
Annex Va part A X.C.IX.001.b.14	Cyclohexanol	108-93-0	2906.12.00
Annex Va part A X.C.IX.001.b.15	Dicyclohexylamine	101-83-7	2921.30.99
Annex Va part A X.C.IX.001.b.16	Ethanol	64-17-5	2207.10.00
Annex Va part A X.C.IX.001.b.17	Ethylene	74-85-1	2901.21.00
Annex Va part A X.C.IX.001.b.18	Ethylene oxide	75-21-8	2910.10.00
Annex Va part A X.C.IX.001.b.19	Fluoroapatite	1306-05-4	2835.39.00
Annex Va part A X.C.IX.001.b.20	Hydrogen chloride	7647-01-0	2806.10.00

Reference	Chemical name	CAS number	CN code¹
Annex Va part A X.C.IX.001.b.21	Hydrogen sulfide	7783-06-4	2811.19.80
Annex Va part A X.C.IX.001.b.22	Mandelic acid	90-64-2	2918.19.98
Annex Va part A X.C.IX.001.b.23	Methanol	67-56-1	2905.11.00
Annex Va part A X.C.IX.001.b.24	Methyl chloride	74-87-3	2903.11.00
Annex Va part A X.C.IX.001.b.25	Methyl iodide	74-88-4	2903.69.80
Annex Va part A X.C.IX.001.b.26	Methyl mercaptan	74-93-1	2930.90.95
Annex Va part A X.C.IX.001.b.27	Monoethyleneglycol	107-21-1	2905.31.00
Annex Va part A X.C.IX.001.b.28	Oxalyl chloride	79-37-8	2917.19.80
Annex Va part A X.C.IX.001.b.29	Potassium sulphide	1312-73-8	2830.90.85
Annex Va part A X.C.IX.001.b.30	Potassium thiocyanate	333-20-0	2842.90.80
Annex Va part A X.C.IX.001.b.31	Sodium hypochlorite	7681-52-9	2828.90.00
Annex Va part A X.C.IX.001.b.32	Sulphur	7704-34-9	2802.00.00
Annex Va part A X.C.IX.001.b.33	Sulphur dioxide	7446-09-5	2811.29.05
Annex Va part A X.C.IX.001.b.34	Sulphur trioxide	7446-11-9	2811.29.10
Annex Va part A X.C.IX.001.b.35	Thiophosphoryl chloride	3982-91-0	2853.90.90
Annex Va part A X.C.IX.001.b.36	Tri-isobutyl phosphite	1606-96-8	2920.29.00
Annex Va part A X.C.IX.001.b.37	White phosphorus	12185-10-3	2804.70.90
Annex Va part A X.C.IX.001.b.38	Yellow phosphorus	7723-14-0	2804.70.90
Annex Va part A X.C.IX.001.b.39	Mercury	7439-97-6	2805.40.00

Reference	Chemical name	CAS number	CN code¹
Annex Va part A X.C.IX.001.b.40	Barium chloride	10361-37-2	2827.39.85
Annex Va part A X.C.IX.001.b.41	Sulphuric acid	7664-93-9	2807.00.00
Annex Va part A X.C.IX.001.b.42	3,3-dimethyl-1-butene	558-37-2	2901.29.00
Annex Va part A X.C.IX.001.b.43	2,2-dimethylpropanal	630-19-3	2912.19.00
Annex Va part A X.C.IX.001.b.44	2,2-dimethylpropylchloride	753-89-9	2903.19.00
Annex Va part A X.C.IX.001.b.45	2-methylbutene	26760-64-5	2901.29.00
Annex Va part A X.C.IX.001.b.46	2-chloro-3-methylbutane	631-65-2	2903.19.00
Annex Va part A X.C.IX.001.b.47	2,3-dimethyl-2,3-butanediol	76-09-5	2905.39.95
Annex Va part A X.C.IX.001.b.48	2-methyl-2-butene	513-35-9	2901.29.00
Annex Va part A X.C.IX.001.b.49	Butyl lithium	109-72-8	2931.90.00
Annex Va part A X.C.IX.001.b.50	Bromo(methyl)magnesium	75-16-1	2931.90.00
Annex Va part A X.C.IX.001.b.51	Formaldehyde	50-00-0	2912.11.00
Annex Va part A X.C.IX.001.b.52	Diethanolamine	111-42-2	2922.12.00
Annex Va part A X.C.IX.001.b.53	Dimethylcarbonate	616-38-6	2920.90.10
Annex Va part A X.C.IX.001.b.54	Methyldiethanolamine hydrochloride	54060-15-0	2922.19.00
Annex Va part A X.C.IX.001.b.55	Diethylamine hydrochloride	660-68-4	2921.19.50
Annex Va part A X.C.IX.001.b.56	Diisopropylamine hydrochloride	819-79-4	2921.19.99
Annex Va part A X.C.IX.001.b.57	3-Quinuclidinone hydrochloride	1193-65-3	2933.39.99
Annex Va part A X.C.IX.001.b.58	3-Quinuclidinol hydrochloride	6238-13-7	2933.39.99

Reference	Chemical name	CAS number	CN code¹
Annex Va part A X.C.IX.001.b.59	(R)-3- Quinuclidinol hydrochloride	42437-96-7	2933.39.99
Annex Va part A X.C.IX.001.b.60	N,N-Diethylaminoethanol hydrochloride	14426-20-1	2922.19.00
Annex Va part A X.C.IX.001.b.63	N,N-Methylisopropylacetamide	1339185-57-7	2925.29.00
Annex Va part A X.C.IX.001.b.64	N,N-Methylethylacetamide	1339632-40-4	2925.29.00
Annex Va part A X.C.IX.001.b.65	N,N-Ethylisopropylacetamide	1339156-10-3	2925.29.00
Annex Va part A X.C.IX.001.b.66	N,N-Methylpropylacetamide	1344238-28-3	2925.29.00
Annex Va part A X.C.IX.001.b.67	N,N-Ethylpropylacetamide	1339737-43-7	2925.29.00
Annex Va part A X.C.IX.001.b.68	N,N-Isopropylpropylacetamide	1341389-98-7	2925.29.00
Annex Va part A X.C.IX.001.b.69	N,N-Methylethylpropanamide	1339424-26-8	2925.29.00
Annex Va part A X.C.IX.001.b.70	N,N-Ethylisopropylpropanamide	1344354-09-1	2925.29.00
Annex Va part A X.C.IX.001.b.71	N,N-Methylpropylpropanamide	1340216-25-2	2925.29.00
Annex Va part A X.C.IX.001.b.72	N,N-Ethylpropylpropanamide	1341493-60-4	2925.29.00
Annex Va part A X.C.IX.001.b.73	N,N-Isopropylpropylpropanamide	1343225-93-3	2925.29.00
Annex Va part A X.C.IX.001.b.74	N,N-Methylisopropylpropanamide	1339042-55-5	2925.29.00
Annex Va part A X.C.IX.001.b.75	N,N-Methylethylbutanamide	1341049-51-1	2925.29.00
Annex Va part A X.C.IX.001.b.76	N,N-Methylpropylbutanamide	1343721-02-7	2925.29.00
Annex Va part A X.C.IX.001.b.77	N,N-Ethylpropylbutanamide	1343806-12-1	2925.29.00
Annex Va part A X.C.IX.001.b.78	N,N-Isopropylpropylbutanamide	1343316-02-8	2925.29.00
Annex Va part A X.C.IX.001.b.79	N,N-Methylisopropylbutanamide	1340219-94-4	2925.29.00

Reference	Chemical name	CAS number	CN code¹
Annex Va part A X.C.IX.001.b.80	N,N-Ethylisopropylbutanamide	1342204-10-7	2925.29.00
Annex Va part A X.C.IX.001.b.81	N,N-Methylethylisobutanamide	1342365-47-2	2925.29.00
Annex Va part A X.C.IX.001.b.82	N,N-Ethylpropylisobutanamide	1342566-58-8	2925.29.00
Annex Va part A X.C.IX.001.b.83	N,N-Methylpropylisobutanamide	1342270-21-6	2925.29.00
Annex Va part A X.C.IX.001.b.84	N,N-Isopropylpropylisobutanamide	1342156-11-9	2925.29.00
Annex Va part A X.C.IX.001.b.85	N,N-Methylisopropylisobutanamide	1341992-96-8	2925.29.00
Annex Va part A X.C.IX.001.b.86	N,N-Ethylisopropylisobutanamide	1339048-76-8	2925.29.00
Annex Va part A X.C.IX.001.b.87	N,N-Dimethylacetamide hydrobromide	1801188-12-4	2925.29.00
Annex Va part A X.C.IX.001.b.88	N,N-Dimethylacetamide hydrochloride	2909-15-1	2925.29.00
Annex Va part A X.C.IX.001.b.89	N,N-Diethylacetamide hydrochloride	91400-32-7	2925.29.00
Annex Va part A X.C.IX.001.b.90	N,N-Diethylacetamide hydrobromide	78053-54-0	2925.29.00
Annex Va part A X.C.IX.001.b.91	N,N-Dimethylpropanamide dihydrochloride	79972-73-9	2925.29.00
Annex Va part A X.C.IX.001.b.92	N,N-Dimethylpropanamide hydrochloride	56776-15-9	2925.29.00
Annex Va part A X.C.IX.001.b.93	Chloroform	67-66-3	2903.13.00
Annex Va part A X.C.IX.002	Fentanyl	437-38-7	2933.33.00
Annex Va part A X.C.IX.002	Fentanyl hydrochloride	1443-54-5	2933.33.00
Annex Va part A X.C.IX.002	Fentanyl citrate	990-73-8	2933.33.00
Annex Va part A X.C.IX.002	Alfentanil	71195-58-9	2933.33.00
Annex Va part A X.C.IX.002	Sufentanil	56030-54-7	2934.91.00

Reference	Chemical name	CAS number	CN code¹
Annex Va part A X.C.IX.002	Remifentanil	132875-61-7	2933.33.00
Annex Va part A X.C.IX.002	Carfentanil	59708-52-0	2933.33.00
Annex Va part A X.C.IX.003	4-anilino-N-phenethylpiperidine	21409-26-7	2933.36.00
Annex Va part A X.C.IX.003	N-phenethyl-4-piperidone	39742-60-4	2933.37.00
Annex Va part A X.C.IX.006.m	Nitrogen trifluoride; NF ₃	7783-54-2	2812.90.00
Annex Va part A X.C.IX.009.d	Tributyl phosphate	126-73-8	2919.90.00
Annex Va part A X.C.IX.009.e	Nitric acid	7697-37-2	2808.00.00
Annex Va part A X.C.IX.009.f	Fluorine	7782-41-4	2801.30.10
Annex Va part A X.C.IX.011.c.1	Carbon Nanotubes	308068-56-6	2803.00.00
Annex Va part A X.C.IX.011.c.3	Fullerene C ₆₀	99685-96-8	2803.00.00
Annex Va part A X.C.IX.011.c.3	Fullerene C ₇₀	115383-22-7	2803.00.00
Annex Va part A X.C.IX.011.c.3	Fullerene C ₇₆	142136-39-8	2803.00.00
Annex Va part A X.C.IX.014.a	Lithium	7439-93-2	2805.19.90
Annex Va part A X.C.IX.014.b	Lithium carbonate	554-13-2	2836.91.00
Annex Va part A X.C.IX.014.c	Lithium hydroxide	1310-65-2	2825.20.00
Annex Va part A X.C.IX.014.c	Lithium hydroxide monohydrate	1310-66-3	2825.20.00
Annex Va part A X.C.IX.014.d	Lithium oxide	12057-24-8	2825.20.00
Annex Va part A X.C.IX.014.e	Lithium cobalt oxide	12190-79-3	2841.90.85
Annex Va part A X.C.IX.014.f	Lithium iron phosphate	15365-14-7	2835.29.90

Reference	Chemical name	CAS number	CN code¹
Annex Va part A X.C.IX.014.g	Lithium manganese oxide	12057-17-9	2841.90.85
Annex Va part A X.C.IX.014.h	Lithium nickel manganese cobalt oxide	346417-97-8	2841.90.85
Annex Va part A X.C.IX.014.i	Lithium titanate	12031-82-2	2841.90.85
Annex Va part B 6	Sodium bromate; NaBrO ₃	7789-38-0	2829.90.40
Annex Va part B 6	Potassium bromate; KBrO ₃	7758-01-2	2829.90.40
Annex Va part B 6	Sodium iodate; NaIO ₃	7681-55-2	2829.90.80
Annex Va part B 6	Potassium iodate; KIO ₃	7758-05-6	2829.90.80
Annex Va part B 6	Sodium perchlorate; NaClO ₄	7601-89-0	2829.90.10
Annex Va part B 6	Potassium perchlorate; KClO ₄	7778-74-7	2829.90.10
Annex Va part B 6	Sodium perbromate; NaBrO ₄	33497-30-2	2829.90.80
Annex Va part B 6	Potassium perbromate; KBrO ₄	22207-96-1	2829.90.80
Annex Va part B 6	Sodium periodate; NaIO ₄	7790-28-5	2829.90.80
Annex Va part B 6	Sodium periodate; Na ₃ H ₂ IO ₆	13940-38-0	2829.90.80
Annex Va part B 6	Sodium periodate; Na ₂ H ₃ IO ₆	15599-97-0	2829.90.80
Annex Va part B 6	Potassium periodate; KIO ₄	7790-21-8	2829.90.80
Annex Va Part B 6	Non-plasticised cellulose acetates, in primary forms	N/A	3912.11.00
Annex Va Part B 6	Plasticised cellulose acetates, in primary forms	N/A	3912.12.00
Annex Va Part B 6	Cellulose ethers, in primary forms (excl. carboxymethylcellulose and its salts)	N/A	3912.39 (subheading)

Reference	Chemical name	CAS number	CN code¹
Annex Va Part B 6	Aluminium powders of non-lamellar structure	7429-90-5	7603.10.00
Annex Va Part B 6	Aluminium powders of lamellar structure; flakes	7429-90-5	7603.20.00
Annex Va part B 8	Chromium powders	7440-47-3	8112.21 (subheading)
Annex Va part B 8	Chromium trioxide	1333-82-0	2819.10.00
Annex Va part B 8	Chromium dioxide	12018-01-8	2819.90.10
Annex Va part B 8	Chromium (III) hydroxide	1308-14-1	2819.90.90
Annex Va part B 8	Antimony oxides	N/A	2825.80.00
Annex Va part B 8	Rhenium powders	7440-15-5	8112.41.90
Annex XVIII	Hydrogen, rare gases and other non-metals	N/A	2804 (heading)
Annex XVIII	Hydrogen chloride 'hydrochloric acid'; chlorosulphuric acid	N/A	2806 (heading)
Annex XVIII	Other inorganic acids and other inorganic oxygen compounds of non-metals	N/A	2811 (heading)
Annex XVIII	Sulphides of non-metals; commercial phosphorus trisulphide	N/A	2813 (heading)
Annex XVIII	Ammonia, anhydrous or in aqueous solution	N/A	2814 (heading)
Annex XVIII	Sodium hydroxide (caustic soda), potassium hydroxide (caustic potash); peroxides of sodium or potassium	N/A	2815 (heading)
Annex XVIII	Zinc oxide; zinc peroxide		2817 (heading)
Annex XVIII	Aluminium hydroxide	N/A	2818.30 (subheading)

Reference	Chemical name	CAS number	CN code¹
Annex XVIII	Chromium oxides and hydroxides	N/A	2819 (heading)
Annex XVIII	Manganese oxides	N/A	2820 (heading)
Annex XVIII	Iron oxides and hydroxides; earth colours containing 70 % or more by weight of combined iron evaluated as Fe ₂ O ₃	N/A	2821 (heading)
Annex XVIII	Cobalt oxides and hydroxides; commercial cobalt oxides	N/A	2822 (heading)
Annex XVIII	Titanium oxides	N/A	2823 (heading)
Annex XVIII	Hydrazine and hydroxylamine and their inorganic salts; inorganic bases, metal oxides, hydroxides and peroxides, n.e.s.	N/A	2825 (heading)
Annex XVIII	Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides	N/A	2827 (heading)
Annex XVIII	Hypochlorites; commercial calcium hypochlorite; chlorites; hypobromites	N/A	2828 (heading)
Annex XVIII	Chlorates and perchlorates; bromates and perbromates; iodates and periodates	N/A	2829 (heading)
Annex XVIII	Sulphites (excluding sodium)	N/A	2832.20 (subheading)
Annex XVIII	Sulphates; alums; peroxosulphates (persulphates)	N/A	2833 (heading)
Annex XVIII	Nitrites; nitrates	N/A	2834 (heading)
Annex XVIII	Phosphinates (hypophosphites), phosphonates (phosphites) and phosphates; polyphosphates, whether or not chemically defined	N/A	2835 (heading)
Annex XVIII	Carbonates; peroxocarbonates (percarbonates); commercial ammonium carbonate containing ammonium carbamate	N/A	2836 (heading)
Annex XVIII	Silicates; commercial alkali metal silicates	N/A	2839 (heading)

Reference	Chemical name	CAS number	CN code¹
Annex XVIII	Borates; Peroxoborates (perborates)	N/A	2840 (heading)
Annex XVIII	Salts of oxometallic or peroxometallic acids	N/A	2841 (heading)
Annex XVIII	Colloidal precious metals; inorganic or organic compounds of precious metals, whether or not chemically defined; amalgams of precious metals	N/A	2843 (heading)
Annex XVIII	Compounds, inorganic or organic, of rare-earth metals, of yttrium or of scandium or of mixtures of these metals	N/A	2846 (heading)
Annex XVIII	Hydrogen peroxide, whether or not solidified with urea	N/A	2847 (heading)
Annex XVIII	Acyclic hydrocarbons	N/A	2901 (heading)
Annex XVIII	Cyclic hydrocarbons	N/A	2902 (heading)
Annex XVIII	Halogenated derivatives of hydrocarbons	N/A	2903 (heading)
Annex XVIII	Sulphonated, nitrated or nitrosated derivatives of hydrocarbons, whether or not halogenated	N/A	2904 (heading)
Annex XVIII	Acyclic alcohols and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2905 (heading)
Annex XVIII	Cyclic alcohols and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2906 (heading)
Annex XVIII	Phenols; phenol-alcohols	N/A	2907 (heading)
Annex XVIII	Ethers, ether-alcohols, ether-phenols, ether-alcohol-phenols, alcohol peroxides, ether peroxide, ketone peroxides, whether or not chemically defined, and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2909 (heading)

Reference	Chemical name	CAS number	CN code ¹
Annex XVIII	Epoxides, epoxyalcohols, epoxyphenols and epoxyethers, with a three-membered ring, and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2910 (heading)
Annex XVIII	Acetals and hemiacetals, whether or not with other oxygen function, and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2911 (heading)
Annex XVIII	Aldehydes, whether or not with other oxygen function; cyclic polymers of aldehydes; para- formaldehyde	N/A	2912 (heading)
Annex XVIII	Ketones and quinones, whether or not with other oxygen function, and their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2914 (heading)
Annex XVIII	Saturated acyclic monocarboxylic acids and their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2915 (heading)
Annex XVIII	Unsaturated acyclic monocarboxylic acids, cyclic monocarboxylic acids, their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2916 (heading)
Annex XVIII	Polycarboxylic acids, their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2917 (heading)
Annex XVIII	Carboxylic acids with additional oxygen function and their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2918 (heading)
Annex XVIII	Esters of inorganic acids of non-metals (excluding esters of hydrogen halides) and their salts; their halogenated, sulphonated, nitrated or nitrosated derivatives	N/A	2920 (heading)
Annex XVIII	Amine-function compounds	N/A	2921 (heading)
Annex XVIII	Oxygen-function amino-compounds	N/A	2922 (heading)

Reference	Chemical name	CAS number	CN code¹
Annex XVIII	Quaternary ammonium salts and hydroxides; Lecithins and other phosphoaminolipids, whether or not chemically defined	N/A	2923 (heading)
Annex XVIII	Carboxamide-function compounds; amide-function compounds of carbonic acid	N/A	2924 (heading)
Annex XVIII	Carboxyimide-function compounds (including saccharin and its salts) and imine-function compounds	N/A	2925 (heading)
Annex XVIII	Nitrile-function compounds	N/A	2926 (heading)
Annex XVIII	Compounds with other nitrogen function	N/A	2929 (heading)
Annex XVIII	Organo-sulphur compounds	N/A	2930 (heading)
Annex XVIII	Heterocyclic compounds with nitrogen hetero-atom(s) only, containing an unfused imidazole ring (whether or not hydrogenated) in the structure (excluding hydantoin and its derivatives, and products of subheading 3002 10)	N/A	2933.29 (subheading)
Annex XVIII	Other derivatives of malonylurea (barbituric acid); salts thereof	N/A	2933.54 (subheading)
Annex XVIII	6-Hexanelactam (epsilon-caprolactam)	N/A	2933.71 (subheading)
Annex XVIII	Lactams (excl. 6-hexanelactam 'epsilon-caprolactam', clobazam (inn), methyprylon (inn), and inorganic or organic compounds of mercury)	N/A	2933.79 (subheading)

Reference	Chemical name	CAS number	CN code ¹
Annex XVIII	Heterocyclic compounds with nitrogen hetero-atom[s] only (excl. those containing an unfused pyrazole, imidazole, pyridine or triazine ring, whether or not hydrogenated, a quinoline or isoquinoline ring-system, not further fused, whether or not hydrogenated, a pyrimidine ring, whether or not hydrogenated, or piperazine ring in the structure, and lactams, alprazolam (inn), camazepam (inn), chlordiazepoxide (inn), clonazepam (inn), clorazepate, delorazepam (inn), diazepam (inn), estazolam (inn), ethyl loflazepate (inn), fludiazepam (inn), flunitrazepam (inn), flurazepam (inn), halazepam (inn), lorazepam (inn), lormetazepam (inn), mazindol (inn), medazepam (inn), midazolam (inn), nimetazepam (inn), nitrazepam (inn), nordazepam (inn), oxazepam (inn), pinazepam (inn), prazepam (inn), pyrovalerone (inn), temazepam (inn), tetrazepam (inn) and triazolam (inn), salts thereof and azinphos-methyl (iso))	N/A	2933.99 (subheading)
Annex XVIII	Glycosides, natural or reproduced by synthesis, and their salts, ethers, esters and other derivatives		2938 (heading)
Annex XVIII	Sugars, chemically pure, other than sucrose, lactose, maltose, glucose and fructose; sugar ethers, sugar acetals and sugar esters, and their salts, other than products of heading 2937, 2938 or 2939		2940 (heading)

¹ in bold new chemicals or new CN codes.

Source: European Commission.

3. Conclusions

In the last two decades, in the field of international security, trade rules include new elements. The figure of the exporter embodies industrial manufacture and suppliers, as well as research institutes and academia. The export legislation rapidly updates to face the monthly, if not daily, international policy changes. In this context, the description of goods and technologies necessary must include new evaluations, such as the classification of dual-use items or potential precursors of substances classified as toxic or lethal.

As one of the central sciences, Chemistry permeates several segments of the export legislation. In the commodity sector, its relevance is given not only by the fact that it contributes to the shaping of several chapters of the Combined Nomenclature, two of which are devoted entirely to pure chemicals, but also by the huge implications of dual-use applications across almost every field.

The intersection between these worlds creates complex scenarios which can be made more confusing with unclear outlines and unexpected penalties. As mentioned at the beginning, one of the aims of this handbook is to reduce the proliferation of toxic and lethal chemicals, which often occurs when exporters do not work in compliance with the rules.

All together, we are confident that the handbook helps the users improve their export compliance by orienting themselves more simply and making the system easier to follow. We have endeavoured to make this list of legislative references as comprehensive as possible, but of course we are open to suggestions to include more relevant ones, as well as improve the handbook's readability and format. Contact email: jrc-strike@ec.europa.eu

As a final disclaimer, we would like to underline that although this handbook contains around 2100 chemicals in the most comprehensive overview that we could provide, the fact that a chemical is not present in this handbook does not imply that is not under the scope of any export regulations. The handbook is meant to be a helpful guide, but its users are always due to consult the primary legislation and follow its requirements.

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List of abbreviations and definitions

Abbreviations	Definitions
AG	Australia Group
CAS	Chemical Abstract Service
CFSP	Common Foreign and Security Policy
CN	Combined Nomenclature
CUS	Customs Union and Statistics
CWC	Chemical Weapons Convention
DNSS	Directorate of Nuclear Safety and Security
DPRK	Democratic Popular Republic of Korea
EC	European Council
ECHA	European Chemicals Agency
ECICS	European Customs Inventory of Chemical Substances
ECN	Export Control Number
EU	European Union
HS	Harmonized System
MTCR	Missile Technology Control Regime
NSG	Nuclear Suppliers Group
OPCW	Organization for the prohibition of the Chemical Weapons
PIC	Prior Informed Consent
STC	Strategic Trade Controls
UN	United Nations
WA	Wassenaar Arrangement

Abbreviations**Definitions**

WCO

World Customs Organization

WMD

Weapons of Mass Destruction

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