Regional Workshop for Latin America and the Caribbean: POPs and Border Control. HS Codes' Classification and Practical Application



Developed under Component 4 of the Global NIP Update Project (GEF ID 10785), executed by GGKP, funded by GEF and led by UNEP







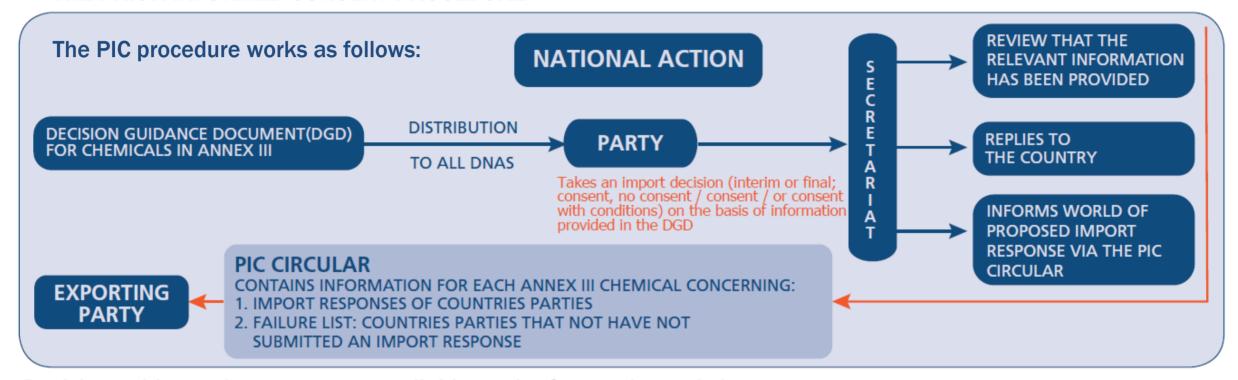
Outline of the presentation



- Overview of the Basel, Rotterdam and Stockholm Convention. Import and Export provisions
- Identification of chemicals
- Brief introduction to the Harmonized System
- Chemicals controlled under the Stockholm/Rotterdam Convention. Articles that may contain these chemicals
- HS codes of the chemicals and preparations controlled under the Stockholm and Rotterdam Conventions
- Databases and Material Safety Data Sheets for consulting chemical properties and HS codes
- How chemicals are controlled by Customs. Importance of opening national subheadings
- Illegal traffic and common smuggling methods
- Importance of cooperation between Customs, Stockholm focal points and other stakeholders

Overview of the Rotterdam Convention Import and Export procedures





Decision guidance documents are available on the Convention website at: https://www.pic.int/TheConvention/Chemicals/DecisionGuidanceDocuments

The Import Responses Database is available on the Convention website at: http://www.pic.int/Procedures/ImportResponses/Database/tabid/1370/language/en-US/Default.aspx

Import decisions taken by Parties must be trade neutral. That is, if the Party decides not to accept imports of a specific chemical, it must also stop domestic production of the chemical for domestic use and refuse imports from any source, including from countries that are not Party to the Convention.



Customs officers are the gatekeepers of the Conventions because they are likely to encounter the chemicals subject to the Convention as part of their daily work. The correct identification of such chemicals, as well as a clear understanding of where to find further information on the Convention's provisions and applicable national laws are key to the success of their work.

For the Convention to be implemented and enforced successfully, good communication between customs officers and DNAs is essential. Customs officers should contact DNAs when they have questions about the Convention's applicability.

All import responses communicated by Parties for each chemical listed in Annex III are available from the import responses database on the Convention's website:

http://www.pic.int/Procedures/ImportResponses/Database/tabid/1370/language/en-US/Default.aspx

WCO assigns specific HS codes to chemicals listed in Annex III to the Rotterdam Convention and subject to the PIC procedure. The updated codes are provided during this workshop

Customs inspections

When inspecting a shipment of chemicals, customs officers of countries that are Parties to the Rotterdam Convention will need to consider the following issues:



FOR EXPORTS

- Verify whether the chemical is listed in Annex III to the Rotterdam Convention.
- Verify the HS codes declared to the chemicals are included in the shipping document and are correct.
- If the chemical is listed in Annex III, the relevant import decision of the importing country should be checked on the import resources database on the Convention's website. If the decision is "no consent" then the export cannot proceed. If the decision is "consent under certain conditions" it may be necessary to contact the DNA in the importing country before exporting the chemical to ensure that those conditions are met.
- If the exported chemical is banned or severely restricted in the exporting country, an export notification must be provided before the first export following the country's adoption of a ban to severely restrict the chemical. After this, the export notification must be provided before the first export in any calendar year, although the requirement to notify before the export may be waived by the DNA of the importing Party, though this must be checked.



FOR EXPORTS

- If the exported chemical is listed in Annex III or is banned or severely restricted in the exporting country, the following must also be checked:
 - ✓ Verify whether the chemical meets the labelling requirements for risks/hazards to human health and the environment. Labels should contain information on the chemical's possible hazards and the safety data sheet should contain information on how to handle accidents and spills.
 - ✓ For chemicals that are to be used for occupational purposes, ensure that the safety data sheet which must follow an internationally recognized format and set out the most up-to-date information available is sent to each importer.
 - ✓ Verify whether any corresponding requirements under national legislation are relevant to this chemical or group of chemicals
- For any doubts on these checks, customs officers should contact their DNA for further information and clarification.

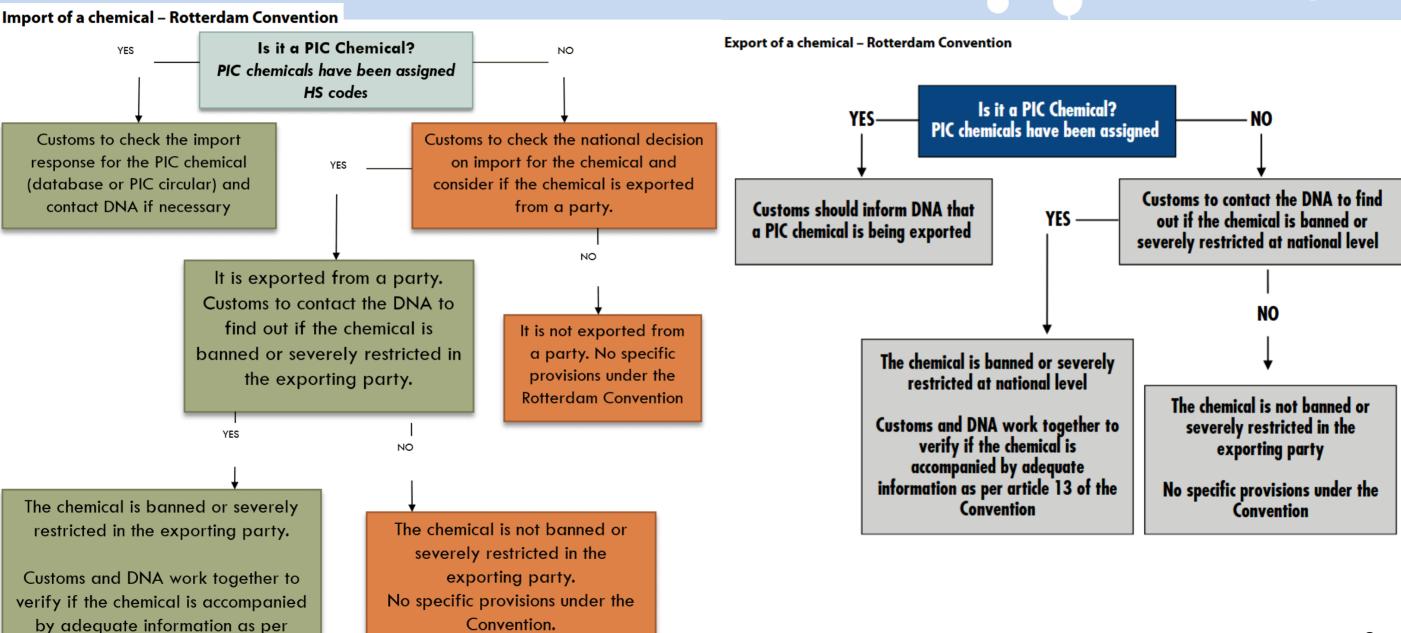


FOR IMPORTS

- Verify whether the chemical is listed in Annex III
- Keep up-to-date regarding important government decisions on the chemical by checking the Rotterdam Convention website
- Verify whether the chemical is adequately labelled and accompanied by adequate information.
- If an export notification is needed, check whether it has been provided (this may be confirmed with the DNA).
- Verify whether a safety data sheet has been included if the chemical is used for occupational purposes. The safety data sheet should be in an internationally recognized format.
- For any doubts on these checks, customs officers should contact their DNA for further information and clarification.

article 13 of the Convention.





Overview of the Stockholm Convention Import and Export provisions



The Stockholm Convention regulates the import and export of covered POPs, however there is no specific procedure defined under the Stockholm Convention for the international trade of POPs.

In the event the POPs fall within the scope of the Basel or the Rotterdam Conventions, then the control procedures provided by these Conventions apply to the import, transit and export, as appropriate.

The Convention regulates the export and import of intentionally produced POPs only (listed in Annexes A and B of the Convention).

Among the measures to reduce or eliminate releases from intentional production and use provided by article 3, is the obligation to ensure that any import and export of the chemicals listed in Annex A and B of the Convention complies with strict requirements.

Overview of the Stockholm Convention Import and Export provisions



FOR IMPORTS

- The chemicals listed in Annexes A and B can only be imported for the purpose of environmentally sound disposal as set forth in article 6 paragraph 1 (d); or
- For a use or purpose which is permitted for that Party under Annex A or Annex B.

ALL OTHER IMPORTS ARE PROHIBITED

Information about the Parties is available on the Stockholm Convention website https://chm.pops.int/Countries/StatusofRatifications/PartiesandSignatoires/tabid/4500/Default.aspx

FOR EXPORTS

Chemicals for which safer alternatives are not readily available to all countries and for which there is a specific exemption or acceptable purpose can only be exported:

- For the purpose of environmentally sound disposal as set forth in article 6 paragraph 1 (d); or
- To a Party which is permitted to use that chemical under Annex A or Annex B; or
- To a non-Party to the Convention which has provided an annual certification to the exporting Party. This certification shall ensure that the importing State will minimize or prevent releases, dispose the chemicals in an environmentally sound manner and respect the provisions of Annex B part II paragraph 2 for DDT production and use, where appropriate.

Overview of the Stockholm Convention Import and Export provisions



The Register of Specific Exemptions is available on the Convention website at:

http://chm.pops.int/Implementation/Exemptions/RegisterofSpecificExemptions/tabid/1133/Default.aspx

The Acceptable Purpose Registers are available at:

http://chm.pops.int/Implementation/Exemptions/AcceptablePurposesDDT/tabid/456/Default.aspx http://chm.pops.int/Implementation/Exemptions/AcceptablePurposesPFOSandPFOSF/tabid/794/Default.aspx

FOR EXPORTS

Any export of these chemicals must take into account any relevant provisions in existing international prior informed consent instruments (article 3 paragraph 1 (b)), for instance the PIC procedures provided by the Basel and the Rotterdam Conventions.

Import and export requirements do not apply to quantities of chemicals to be used for laboratory research or as a reference standard, nor to quantities of specified chemicals occurring as unintentional trace contaminants in products and articles.

Role of Customs in implementing the **Stockholm Convention**



Import of dechlorane plus

Is it controlled under Rotterdam PIC procedure No Take measures to restrict import for purpose of Specific exemption for use No environmentally sound registered by importing Party? disposal under art. 6, para. 1 (d) of the Convention Yes

Take measures to restrict import in accordance with the provisions of Part XI of Annex A

For purpose of environmentally sound disposal (art. 6 para. 1 (d) of the Convention)

Part XI

- 1. The use of Dechlorane Plus shall be eliminated except for Parties that have notified the Secretariat of their intention to use it in accordance with Article 4.
- 2. Specific exemptions for the use of Dechlorane Plus for replacement parts for. and repair of, articles shall apply where Dechlorane Plus was originally used in the manufacture of those articles and may be available, limited to the following applications, until the end of the service life of the articles or 2044, whichever comes
 - (a) Aerospace (such as aircraft engine fan case rub strip products and void-filling and edge-sealing products, aircraft engine manufacturing repairs, electrical items, structural panels and aircraft cabin interiors);
 - (b) Space (such as satellites, probes and other exploration equipment, manned cabins and laboratories, heat-insulating materials for rocket motors and ground support equipment);
 - (c) Defence (such as naval vessels, missiles, launch platforms, ordnance, communication equipment, radar and lidar systems and support
 - (d) Motorvehicles (covering all land-based vehicles, such as cars, motorcycles, agricultural and construction vehicles and industrial trucks; applications include cables, wire harnesses, connectors and insulation tapes)
 - (e) Stationary industrial machines (such as tower cranes, concrete plants and hudraulic crushers: applications include cables, wire harnesses. connectors and insulation tapes) for use in agriculture, forestry and
 - [f] Marine, garden, forestry and outdoor power equipment;
 - (g) Instruments for analysis, measurements, control, monitoring, testing, production and inspection.

Export of polychlorinated biphenyls



Take measures to restrict export to

sound waste management

export for purpose of environmentally

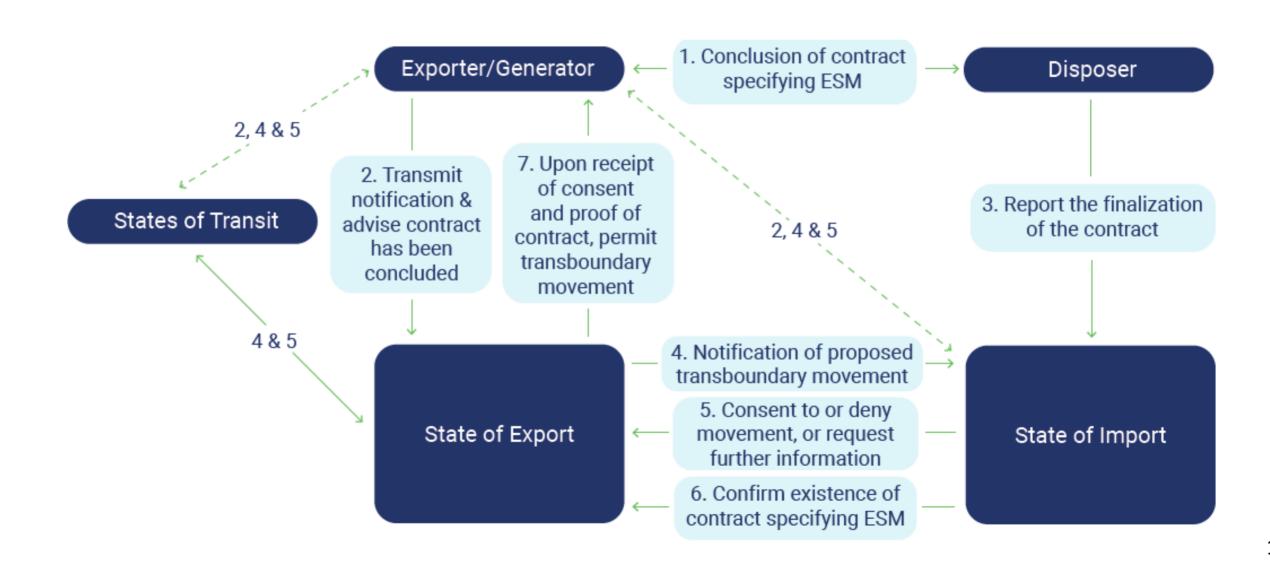
Identify and take into account relevant provisions in international PIC instruments

See procedures for non-Parties

Restrict export to export of articles to be used in accordance with provisions of Part II of Annex A and/or for purpose of environmentally sound disposal

How the Basel Convention regulates transboundary movements

NOTIFICATION PROCEDURE



How the Basel Convention regulates	transboundary
movements	

Exporter - notifier Registrati Name: Address:	on No:			ation No: on concerning idual shipment	: 🔲 (ii) Mult	iple shipment	s: 🗆
Contact person: Tel: Fax:			B. (i) Disp		(ii) Reco		
E-mail: 2. Importer - consignee Regist	ration No:			sented recover			NO []
Name: Address: Contact person:				tended quantity			<
Tel: Fax: E-mail:			6. Intende First depa	d period of tim	e for shipmer Last depart		
				ing type(s) (5): andling requiren		s: 🗆 N	lo:
8. Intended carrier(s) Registrat Name (7): Address:	tion No:		D code/R	sal/recovery op code (5): gy employed (6)			
Contact person: Tel: Fax: E-mail: Means of transport (5):			Reason fo	r export (1,6):			
9. Waste generator(s) - product Registration No: Name: Address:	me:						
Contact person: Tel: Fax: E-mail: Site and process of generation	(6):		13. Physic	cal characterist	ics (5):		
10. Disposal facility (2):			14. Waste identification (fill in relevant codes) (i) Basel Annex VIII (or IX if applicable): (ii) OECD code (if different from (i)): (iii) EC list of wastes: (iv) National code in country of export: (v) National code in country of import: (vi) Other (specify): (vii) Y code: (viii) H code (5): (x) UN Class (5): (x) UN Number: (xi) UN Shipping name: (xii) Customs code(s) (HS):				
15. (a) Countries/States conce (border crossing or port)	erned, (b) Code no. o	f competent	authoritie	s where applica	ble, (c) Speci	fic points of e	xit or entry
State of export - dispatch	State	(s) of transit	(entry and	d exit)	State	of import - d	estination
(a)							
(b)							

4	
$\langle \Box$	Notification document
7	

Movement document



1. Corresponding to notification No:		2. Serial/total numb	er of shipments: /
3. Exporter - notifier Registration No: Name:	, , , , , , , , , , , , , , , , , , , 	4. Importer - consig Name:	nee Registration No:
Address:		Address:	
Contact person: Tel: Fax: E-mail:		Contact person: Tel: Fa E-mail:	ex:
5. Actual quantity: Tons (Mg):	m³:	6. Actual date of shi	pment:
7. Packaging Type(s) (1): Special handling requirements: (2)	Number of pack Yes: No:	ages:	
8.(a) 1st carrier (3): Registration No: Name: Address:	8.(b) 2nd carrier: Registration No: Name: Address:		8.(c) Last carrier: Registration No: Name: Address:
Tel: Fax:	Tel: Fax:		Tel: Fax:
E-mail:	E-mail:		E-mail:
	To be completed b	by carrier's representat	tive More than 3 carriers (2
Means of transport (1): Date of transfer: Signature:	Means of transport (Date of transfer: Signature:	1):	Means of transport (1): Date of transfer: Signature:
9. Waste generator(s) - producer(s) (4, Registration No: Name: Address:	5,6):	12. Designation and	composition of the waste (2):
Contact person: Tel: E-mail: Site of generation (2):		13. Physical charact	teristics (1):
10. Disposal facility or recor Registration No: Name: Address:	very facility	14.Waste identificat (i) Basel Annex VIII ((ii) OECD code (if dif (iii) EC list of wastes (iv) National code in	ferent from (i)): i:
Contact person: Tel: Fax: E-mail: Actual site of disposal/recovery (2):		(v) National code in (vi) Other (specify): (vii) Y code: (viii) H code (1):	
11. Disposal/recovery operation(s) D code/R code (1):		(ix) UN class (1): (x) UN Number: (xi) UN Shipping nan	

15. Exporter's - notifier's/generator's - producer's (4) declaration:
I certify that the above information is complete and correct to my best knowledge. I also certify that legally enforceable written contractual obligations have been entered into, that any applicable insurance or other financial guarantee is in force covering the transboundary movement and that all necessary consents have been received from the competent authorities of the countries concerned.

14

Signature: Name: Date:

More information about the Conventions and their import – export provisions



The Rotterdam Convention https://www.pic.int/

The Stockholm Convention https://chm.pops.int/

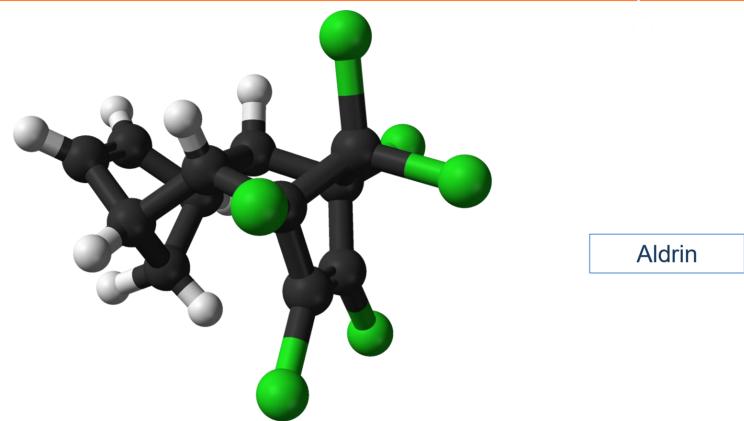
The Basel Convention https://www.basel.int/

Green Customs Initiativehttps://www.greencustoms.org/

Green Customs Guide to Multilateral Environmental Agreements
 https://www.greencustoms.org/sites/default/files/2023-05/Green_customs_guide-english.pdf

Identification of chemicals





To control transfers and to collect data, chemicals must be identified by Customs

The identification and classification of chemicals and wastes determine whether the Prior Informed Consent (PIC) procedures or other procedures must be followed and if the import and export are allowed.

Identification of chemicals: Packaging

- Chemicals are difficult to identify by nonchemists
- They can be packaged in many different forms





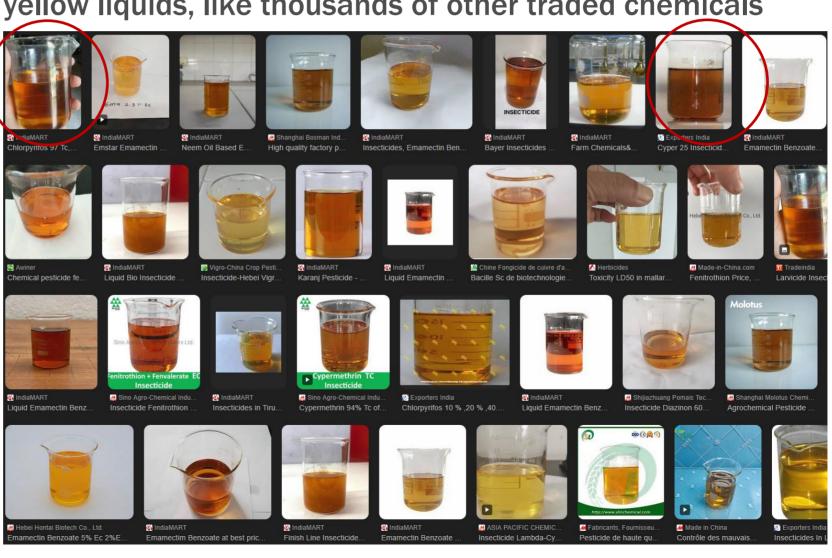


Identification of chemicals: Physical appearance

- Chemicals cannot be identified purely from their physical appearance
 - Mainly colourless or yellow liquids, like thousands of other traded chemicals



Chlorpyrifos



Identification of chemicals: Analysis



- Samples can be taken and analyzed at a lab or sometimes on site, but:
 - Costly
 - Causes delays
 - Need appropriate equipment and expertise





Identification of chemicals



- Sampling and analysis can only be for suspect cases or on an occasional random basis – cannot sample every chemical product being imported or exported
- Vast majority of chemicals are transferred for legitimate purposes
 - Hence the identity will not be concealed
 - But the importer/exporter may not be aware the chemical is controlled.
- Hence on routine basis customs officers need to use <u>chemical identifiers</u> to identify transfers that need further examination.

Chemical identifiers: chemical name



- Chemicals are named according to different systematic nomenclatures and they have different synonyms. The official systematic nomenclature is the IUPAC* name
- ✓ (1R,2R,3R,6S,7S,8S)-1,8,9,10,11,11-Hexachlorotetracyclo[6.2.1.1~3,6~.0~2,7~]dodeca-4,9-diene

Aldrin

- ✓ 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro- 1,4:5,8-dimethanonaphthalene
- ✓ (1R,4S,4aS,5S,8R,8aR)-1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-dimethanonaphthalene
- Chemicals have many trade names given by their producers. Some trade names:

Examples of Trade Names

*IUPAC: International Union of Pure and Applied Chemistry

Chemical	Synonyms and trade names
Aldrin	Aldocit, Aldrec, Aldrex, Aldrex 25, Aldrex 30, Aldrex 40, Aldrin, Aldrite, Aldrosol, Altox, Andrex, Andrex 40, Bangald, Compound 118, Drinox, ENT 15,949, HHDN, Kortofin, Octalene, Rasayaldrin, SD 2794, Seedrin, Tatuzinho.
Chlordane	Aspon, Belt, CD 68, Chloriandin, Chlorkil, Chlordane, Chlorindan, Chlorotox, Corodan, Cortilan-neu, Dowchlor, ENT 9932, Gold Crest C-100, HCS 3260, Kypchlor, M140, M410, NSC 8931, Niran, Octachlor, Octaterr, Ortho-Klor, Prentox, Penticklor, Synklor, Tat chlor 4, Topichlor, Toxichlor, Veliscol-1068.
Chlordecone	GC 1189, Kepone, Merex, ENT 16391, Curlone

Chemical identifiers: ISO name



For purposes of trade, registration and legislation, and for use in popular and scientific publications, pesticides need names that are short, distinctive, non-proprietary and widely accepted.

Systematic chemical names are rarely short and are not convenient for general use;

✓ (1R,2R,3R,6S,7S,8S)-1,8,9,10,11,11-Hexachlorotetracyclo[6.2.1.1~3,6~.0~2,7~]dodeca-4,9-diene

Thus, standards bodies assign common names to the active ingredients of pesticides.

The International Organization for Standardization (ISO) has assigned more than 1200 of these official common names for pesticides in different languages.

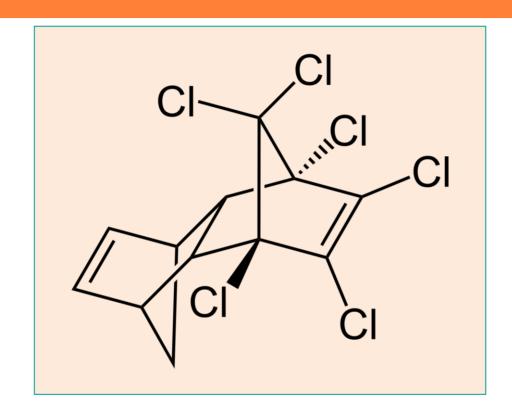
ISO Name:

Aldrin (English) Aldrina (Spanish) Aldrine (French) Альдрин (Russian)

COMPENDIUM OF PESTICIDE COMMON NAMES

http://www.bcpcpesticidecompendium.org/

Chemical identifiers: Chemical structure



Aldrin

Unique identifier BUT

- Difficult for non chemists
- Not easily searchable
- Normally not included in Customs clearance documentation
- Included in Material Safety Data Sheets or technical information

Chemical identifiers: Molecular Formula

C₁₂H₈Cl₆

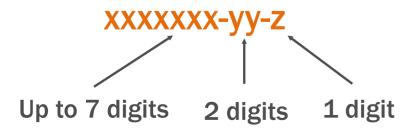
- Gives the number of each type of atom in a molecule
 - NO information on how these atoms are connected
- Many different chemicals have the SAME molecular formula
 - hence utility is limited for identification purposes

Chemical identifiers: CAS numbers



CAS 309-00-2

- A CAS Registry Number (CAS RN) is a unique numerical identifier assigned to a specific chemical substance by the Chemical Abstracts Service (CAS).
- It helps to eliminate confusion caused by multiple names for the same chemical by providing a single, unambiguous identifier. These numbers are crucial for accurate communication, regulatory compliance, and research in chemistry and related fields
- Each substance receives a UNIQUE CAS registry number with the following format

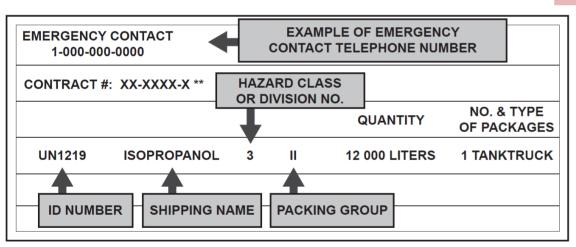


Each CAS RN uniquely identifies a chemical substance, avoiding confusion from multiple names: CAS number for Aldrin: 309-00-2

Chemical identifiers: UN numbers

- Used for the identification of dangerous goods being transported
- Useful in some cases but most chemicals do not have unique UN number and are covered under a category with other chemicals which pose similar hazards e.g:
 Organochlorine pesticide, liquid, flammable, toxic: 2762 for Aldrin

GHS: https://unece.org/transport/dangerous-goods/ghs-rev10-2023



EXAMPLE OF PLACARD AND PANEL WITH ID NUMBER

The 4-digit ID Number may be shown on the diamond-shaped placard or on an adjacent orange panel displayed on the ends and sides of a cargo tank, vehicle or rail car.







1219

UN Numbers could be found in:

Transport of Dangerous Goods Model Regulations
https://unece.org/sites/default/files/2023-08/ST-SG-AC10-1r23e_Vol1_WEB.pdf

2279	HEXACHLOROBUTADIENE		6.1	
2729	HEXACHLOROBENZENE		6.1	
2762	ORGANOCHLORINE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23 °C	3	6.1	1





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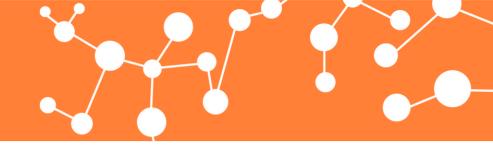
Other chemical identifiers



- Other systems for identification of chemicals available but most relatively complex and not heavily used by industry or traders, hence utility for us is limited. E.g.
 - SMILES (simplified molecular input line entry specification)

 CIC4(CI)[C@@]2(CI)C(/CI)=C(/CI)[C@]4(CI)[C@@H]3[C@@H]\1C[C@@H](/C=C/1)[C@H]23
 - InChI (International Chemical Identifier from IUPAC)
 InChI=1S/C12H8Cl6/c13-8-9(14)11(16)7-5-2-1-4(3-5)6(7)10(8,15)12(11,17)18/h1-2,4-7H,3H2/t4-,5+,6+,7-,10+,11-

Where to find these identifiers?



Revision date 25-Jul-2022



SAFETY DATA SHEET

- Packaging and Labelling
- Material Safety Data Sheets (MSDS)
 - Intended to provide health and safety data
 - Can provide useful information on composition
 - Normally includes names, CAS numbers and other identifiers

TRC-A521050-10MG - Aldrin

Precautionary Statements - Storage Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant

Other information

No information available

3. Composition/information on ingredients

Substance

Formula C12 H8 Cl6

Chemical name	CAS No	Weight-%		Date HMIRA filed and date exemption granted (if applicable)
			(HMIRA registry #)	
Aldrin (ISO)	309-00-2	90 - 100%	-	

14. Transport information

TDG

UN number or ID number UN2761

UN proper shipping name Organochlorine pesticide, solid, toxic (Aldrin (ISO))

Transport hazard class(es) 6.1
Packing group I
Special Provisions 16
Marine pollutant NP

Description UN2761, Organochlorine pesticide, solid, toxic (Aldrin (ISO)), 6.1, I

CRITICAL IDENTIFIER FOR CUSTOMS



THE IDENTIFIER OF ANY GOOD, INCLUDING CHEMICALS, DURING CUSTOMS OPERATIONS IS

THE HARMONIZED SYSTEM CODE

Brief introduction to the Harmonized System Convention

Full Title

INTERNATIONAL CONVENTION ON
THE HARMONIZED COMMODITY
DESCRIPTION
AND CODING SYSTEM

From Tariff of Egypt to Modern Nomenclature





Egyptian Customs Tariff dating back to 2000 BC presented to the WCO by Egyptian Customs on the occasion of the 60th anniversary of the Organization

Tarif douanier appliqué en Egypte 2000 ans av. J.-C offert à l'OMD par la douane égyptienne à l'occasion du 60 anniversaire de l'Organisation

Juin • June 2012

Tariffs have probably been in existence for as long as governments exist. Earlier tariffs were simple lists of goods and the tariff applicable

Harmonized System



- Multipurpose Goods Nomenclature developed by WCO
- 163 Contracting Parties to the HS Convention (162 countries and the European Union) (as of Sep. 2025)
- Basis for Customs Tariffs and Trade Statistics of more than 200 countries and Customs or Economic Unions
- More than 98 % of World trade in terms of the HS
- A universal economic language and code for transportable goods
- Pineapple, Ananá, piña, abacaxi, 菠蘿

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Harmonized System



Customs tariffs



Collection of international trade statistics



Internal taxes

Trade negotiations

Transport tariffs and statistics

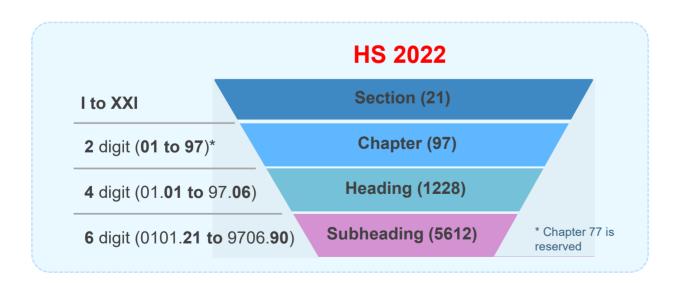
Monitoring of controlled goods

Core Customs process areas of Customs controls and procedures including risk assessment, information technology and compliance.

Other purposes

HS Convention – Annex: HS Nomenclature

- Integral part of the Convention
- Not a list of all traded goods
- System for grouping commodities
- General Interpretative Rules (GIRs)
- Legal Notes (Section/Chapter/Subheading Notes)
- Headings and Subheadings (description and code)



6-digit International level (WCO)

2903.82 -- Aldrin (ISO), chlordane (ISO) and heptachlor (ISO)

US 10-digit national level

2903.82.00 00 Aldrin (ISO), chlordane (ISO) and heptachlor (ISO).

2903 82 00

EU 8-digit regional level

-- Aldrin (ISO), chlordane (ISO) and heptachlor (ISO)

MERCOSUR 8-digit regional level

2903.82	Aldrina (ISO), clordano (ISO) y heptacloro (ISO)
2903.82.10	Aldrina
2903.82.20	Clordano
2903.82.30	Heptacloro

Uruguay 10-digit national level

2903.82	Aldrina (ISO), clordano (ISO) y heptacloro (ISO)
2903.82.10.00	Aldrina
2903.82.20.00	Clordano
2903.82.30.00	Heptacloro

TABLE OF CONTENTS

General Rules for the interpretation of the Harmonized System.

SECTION I LIVE ANIMALS; ANIMAL PRODUCTS

Section Notes.

- 1 Live animals.
- 2 Meat and edible meat offal.
- 3 Fish and crustaceans, molluses and other aquatic invertebrates.
- 4 Dairy produce; birds' eggs; natural honey; edible products of animal origin, not elsewhere specified or included.
- 5 Products of animal origin, not elsewhere specified or included.

SECTION II VEGETABLE PRODUCTS

Section Note.

- 6 Live trees and other plants; bulbs, roots and the like; cut flowers and ornamental foliage.
- 7 Edible vegetables and certain roots and tubers.
- 8 Edible fruit and nuts; peel of citrus fruit or melons.
- 9 Coffee, tea, maté and spices.
- 10 Cereals.
- 11 Products of the milling industry; malt; starches; inulin; wheat gluten.
- 12 Oil seeds and oleaginous fruits; miscellaneous grains, seeds and fruit; industrial or medicinal plants; straw and fodder.
- 13 Lac; gums, resins and other vegetable saps and extracts.
- 14 Vegetable plaiting materials; vegetable products not elsewhere specified or included.

SECTION III

ANIMAL, VEGETABLE OR MICROBIAL FATS AND OILS AND THEIR CLEAVAGE PRODUCTS; PREPARED EDIBLE FATS; ANIMAL OR VEGETABLE WAXES

15 Animal, vegetable or microbial fats and oils and their cleavage products; prepared edible fats; animal or vegetable waxes.

SECTION IV

PREPARED FOODSTUFFS; BEVERAGES, SPIRITS AND VINEGAR; TOBACCO AND MANUFACTURED TOBACCO SUBSTITUTES; PRODUCTS, WHETHER OR NOT CONTAINING NICOTINE, INTENDED FOR INHALATION WITHOUT COMBUSTION; OTHER NICOTINE CONTAINING PRODUCTS INTENDED FOR THE INTAKE OF NICOTINE INTO THE HUMAN BODY

Section Note.

- 16 Preparations of meat, of fish, of crustaceans, molluscs or other aquatic invertebrates, or of insects.
- 17 Sugars and sugar confectionery.
- 18 Cocoa and cocoa preparations.
- 19 Preparations of cereals, flour, starch or milk; pastrycooks' products.
- 20 Preparations of vegetables, fruit, nuts or other parts of plants.
- 21 Miscellaneous edible preparations.

- 22 Beverages, spirits and vinegar.
- 23 Residues and waste from the food industries; prepared animal fodder.
- 24 Tobacco and manufactured tobacco substitutes; products, whether or not containing nicotine, intended for inhalation without combustion; other nicotine containing products intended for the intake of nicotine into the human body.

SECTION V MINERAL PRODUCTS

- 25 Salt; sulphur; earths and stone; plastering materials, lime and cement.
- 26 Ores, slag and ash.
- 27 Mineral fuels, mineral oils and products of their distillation; bituminous substances; mineral waxes.

SECTION VI

PRODUCTS OF THE CHEMICAL OR ALLIED INDUSTRIES

Section Notes.

- 28 Inorganic chemicals; organic or inorganic compounds of precious metals, of rare-earth metals, of radioactive elements or of isotopes.
- 29 Organic chemicals.
- 30 Pharmaceutical products.
- 31 Fertilisers.
- 32 Tanning or dyeing extracts; tannins and their derivatives; dyes, pigments and other colouring matter; paints and varnishes; putty and other mastics; inks.
- 33 Essential oils and resinoids; perfumery, cosmetic or toilet preparations.
- 34 Soap, organic surface-active agents, washing preparations, lubricating preparations, artificial waxes, prepared waxes, polishing or scouring preparations, candles and similar articles, modelling pastes, "dental waxes" and dental preparations with a basis of plaster.
- 35 Albuminoidal substances: modified starches: glues: enzymes.
- 86 Explosives; pyrotechnic products; matches; pyrophoric alloys; certain combustible preparations.
- 37 Photographic or cinematographic goods.
- 38 Miscellaneous chemical products.

SECTION VII

PLASTICS AND ARTICLES THEREOF; RUBBER AND ARTICLES THEREOF

Section Notes.

- 39 Plastics and articles thereof.
- 40 Rubber and articles thereof.

SECTION VIII

RAW HIDES AND SKINS, LEATHER, FURSKINS AND ARTICLES THEREOF; SADDLERY AND HARNESS; TRAVEL GOODS, HANDBAGS AND SIMILAR CONTAINERS; ARTICLES OF ANIMAL GUT (OTHER THAN SILK-WORM GUT)

- 41 Raw hides and skins (other than furskins) and leather.
- 42 Articles of leather, saddlery and harness; travel goods, handbags and similar containers; articles of animal gut (other than silk-worm gut).
- 43 Furskins and artificial fur; manufactures thereof.

SECTION IX

WOOD AND ARTICLES OF WOOD; WOOD CHARCOAL; CORK AND ARTICLES OF CORK; MANUFACTURES OF STRAW, OF ESPARTO OR OF OTHER PLAITING MATERIALS; BASKETWARE AND WICKERWORK

- 44 Wood and articles of wood; wood charcoal.
- 45 Cork and articles of cork.
- 46 Manufactures of straw, of esparto or of other plaiting materials; basketware and wickerwork.

SECTION X

PULP OF WOOD OR OF OTHER FIBROUS CELLULOSIC MATERIAL; RECOVERED (WASTE AND SCRAP) PAPER OR PAPERBOARD; PAPER AND PAPERBOARD AND ARTICLES THEREOF

- 47 Pulp of wood or of other fibrous cellulosic material; recovered (waste and scrap) paper or paperboard.
- 48 Paper and paperboard; articles of paper pulp, of paper or of paperboard.
- 49 Printed books, newspapers, pictures and other products of the printing industry; manuscripts, typescripts and plans.

SECTION XI

TEXTILES AND TEXTILE ARTICLES

Section Notes.

-) Silk.
- 51 Wool, fine or coarse animal hair; horsehair yarn and woven fabric.
- 52 Cotton
- 53 Other vegetable textile fibres; paper yarn and woven fabrics of paper yarn.
- 54 Man-made filaments; strip and the like of man-made textile materials.
- 55 Man-made staple fibres.
- 56 Wadding, felt and nonwovens; special yarns; twine, cordage, ropes and cables and articles thereof.
- 57 Carpets and other textile floor coverings.
- 58 Special woven fabrics; tufted textile fabrics; lace; tapestries; trimmings; embroidery.
- 59 Impregnated, coated, covered or laminated textile fabrics; textile articles of a kind suitable for industrial use.
- 60 Knitted or crocheted fabrics.
- 61 Articles of apparel and clothing accessories, knitted or crocheted.
- 62 Articles of apparel and clothing accessories, not knitted or crocheted.
- 63 Other made up textile articles; sets; worn clothing and worn textile articles; rags.

SECTION XII

FOOTWEAR, HEADGEAR, UMBRELLAS, SUN UMBRELLAS, WALKING-STICKS, SEAT-STICKS, WHIPS, RIDING-CROPS AND PARTS THEREOF; PREPARED FEATHERS AND ARTICLES MADE THEREWITH; ARTIFICIAL FLOWERS; ARTICLES OF HUMAN HAIR

- 64 Footwear, gaiters and the like; parts of such articles.
- 65 Headgear and parts thereof.
- 66 Umbrellas, sun umbrellas, walking-sticks, seat-sticks, whips, riding-crops and parts thereof.
- 67 Prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of human hair.

Section VI



SECTION VI

PRODUCTS OF THE CHEMICAL OR ALLIED INDUSTRIES

Section Notes.

28 Inorganic chemicals; organic or inorganic compounds of precious metals, of rare-earth metals, of radioactive elements or of isotopes.

Pure substances

- 29 Organic chemicals.
- 30 Pharmaceutical products.
- 31 Fertilisers.
- 32 Tanning or dyeing extracts; tannins and their derivatives; dyes, pigments and other colouring matter; paints and varnishes; putty and other mastics; inks.
- 33 Essential oils and resinoids; perfumery, cosmetic or toilet preparations.
- Soap, organic surface-active agents, washing preparations, lubricating preparations, artificial waxes, prepared waxes, polishing or scouring preparations, candles and similar articles, modelling pastes, "dental waxes" and dental preparations with a basis of plaster.
- 35 Albuminoidal substances; modified starches; glues; enzymes.
- 36 Explosives; pyrotechnic products; matches; pyrophoric alloys; certain combustible preparations.
- 37 Photographic or cinematographic goods.
- 38 Miscellaneous chemical products.

Pesticides and preparations containing POPs

6 Digits: International level

The first two digits indicate the Chapter Number (Chapter

The third and fourth digits indicate the position of that he



r 29)			<u> </u>			
eading wi	thin that Chapter			Rotterd		
with a onated,			Во	Stockh oth (PIC procedu		
	- Halogenated, sulphonat	ted, nitrated	or nitrosated deri	vatives :		
2914.71	Chlordecone (ISO)					
2914.79	Other	2920.30	- Endosulfan (ISO)		
H.S. Code			•			
2903.78	Other perhalogenated de	Other perhalogenated derivatives				
2903.79	Other					
	- Halogenated derivatives hydrocarbons :	of cyclanic,	cyclenic or cycl	oterpenic		
2903.81	1,2,3,4,5,6-Hexachloroc lindane (ISO, INN)	yclohexane	(HCH (ISO)),	including		
2903.82	Aldrin (ISO), chlordane	(ISO) and he	eptachlor (ISO)			
2903.83	Mirex (ISO)					
2903.89	Other					
	- Halogenated derivatives of aromatic hydrocarbons :					
2903.91	Chlorobenzene, o-dichlorobenzene and p-dichlorobenzene					
2903.92	Hexachlorobenzene (ISO 1,1,1-trichloro-2,2-bis(p	O) and DDT -chloropheny	(ISO) (clofenotar yl)ethane)	ie (INN).		
2903.93	Pentachlorobenzene (ISC	O)	Delveblerie -4	to duo o o batheral a care	1	
2903.94	Hexabromobiphenyls] //	Polycniorinat	ted naphthalenes		
2903.99	Other		Polychlorinate	ed biphenyls PCBs	37	

29.10		Epoxides, epoxyalcohols, epoxyphenols and epoxyethers, three-membered ring, and their halogenated, sulphonitrated or nitrosated derivatives.	
	2910.10	- Oxirane (ethylene oxide)	_
	2910.20	- Methyloxirane (propylene oxide)	L
	2910.30	- 1-Chloro-2,3-epoxypropane (epichlorohydrin)	
	2910.40	- Dieldrin (ISO, INN) Heading	
	2910.50	- Endrin (ISO)	
	2910.90	- Other	
	- Derivati	ves containing only halogen substituents and their salts :	
2908.11	Pentac	hlorophenol (ISO)	
2908.19	Other	Salts of pentachlorophenol	
	- Perfluore	poctane sulphonic acid, its salts and perfluorooctane	
2904.31	Perflu	prooctane sulphonic acid	
2904.32	Ammo	nium perfluorooctane sulphonate	
2904.33	Lithiu	n perfluorooctane sulphonate	
2904.34	Potassi	ium perfluorooctane sulphonate	
2904.35	Other	salts of perfluorooctane sulphonic acid	
2904.36	Perfluc	prooctane sulphonyl fluoride	

Pesticides - Chapter 38 HS 2022



Subheading Notes.

1.- Subheadings 3808.52 and 3808.59 cover only goods of heading 38.08, containing one or more of the following substances: alachlor (ISO); aldicarb (ISO); aldrin (ISO); azinphos-methyl (ISO); binapacryl (ISO); camphechlor (ISO) (toxaphene); captafol (ISO); carbofuran (ISO); chlordane (ISO); chlordineform (ISO); chlorobenzilate (ISO); DDT (ISO) (clofenotane (INN), 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane); dieldrin (ISO, INN); 4,6-dinitro-o-cresol (DNOC (ISO)) or its salts; dinoseb (ISO), its salts or its esters; endosulfan (ISO); ethylene dibromide (ISO) (1,2-dibromoethane); ethylene dichloride (ISO) (1,2-dichloroethane); fluoroacetamide (ISO); heptachlor (ISO); hexachlorobenzene (ISO); 1,2,3,4,5,6-hexachlorocyclohexane (HCH (ISO)), including lindane (ISO, INN); mercury compounds; methamidophos (ISO); monocrotophos (ISO); oxirane (ethylene oxide); parathion (ISO); parathion-methyl (ISO) (methyl-parathion); pentachlorophenol (ISO), its salts or its esters; perfluorooctane sulphonic acid and its salts; perfluorooctane sulphonamides; perfluorooctane sulphonyl fluoride; phosphamidon (ISO); 2,4,5-T (ISO) (2,4,5-trichlorophenoxyacetic acid), its salts or its esters; tributyltin compounds; trichlorfon (ISO).

Note that all pesticides contained in Subheading Note 1 are controlled by Rotterdam and subject to PIC procedures

All other insecticides not contained in Subheading Note 1 and some from Stockholm may be classified here

Terbufos and phorate are new pesticides approved for inclusion by Rotterdam. As they are not included in Subheading Note 1, they are classified in 3808.91

	H.S. Code	
		Insecticides, rodenticides, fungicides, herbicides, anti-sprouting products and plant-growth regulators, disinfectants and similar products, put up in forms or packings for retail sale or as preparations or articles (for example, sulphur-treated bands, wicks and candles, and fly-papers).
		- Goods specified in Subheading Note 1 to this Chapter:
1	3808.52	DDT (ISO) (clofenotane (INN)), in packings of a net weight content not exceeding 300 g
	3808.59	Other
		- Goods specified in Subheading Note 2 to this Chapter :
	3808.61	In packings of a net weight content not exceeding 300 g
	3808.62	In packings of a net weight content exceeding 300 g but not exceeding 7.5 kg
	3808.69	Other
		- Other :
	3808.91	Insecticides
	3808.92	Fungicides
	3808.93	Herbicides, anti-sprouting products and plant-growth regulators
	3808.94	Disinfectants
	3808.99	Other

Heading

38.08

Preparations - Chapter 38 HS 2022



Subheading Notes.

3.- Subheadings 3824.81 to 3824.89 cover only mixtures and preparations containing one or more of the following substances: oxirane (ethylene oxide); polybrominated biphenyls (PBBs); polychlorinated biphenyls (PCBs); polychlorinated terphenyls (PCTs); tris(2,3-dibromopropyl) phosphate; aldrin (ISO); camphechlor (ISO) (toxaphene); chlordane (ISO); chlordecone (ISO); DDT (ISO) (clofenotane (INN); 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane); dieldrin (ISO, INN); endosulfan (ISO); endrin (ISO); heptachlor (ISO); mirex (ISO); 1,2,3,4,5,6-hexachlorocyclohexane (HCH (ISO)), including lindane (ISO, INN); pentachlorobenzene (ISO); hexachlorobenzene (ISO); perfluorooctane sulphonic acid, its salts; perfluorooctane sulphonamides; perfluorooctane sulphonyl fluoride; tetra-, penta-, hexa-, hepta- or octabromodiphenyl ethers; short-chain chlorinated paraffins.

Short-chain chlorinated paraffins are mixtures of compounds, with a chlorination degree of more than 48 % by weight, with the following molecular formula: $C_xH_{(2x-y+2)}Cl_y$, where x=10 - 13 and y=1-13.

Preparations containing substances controlled by Rotterdam and Stockholm

Preparations containing substances controlled by Rotterdam

Other preparations not mentioned in Subheading Note 3 containing Decabromodiphenyl ether;

Dechlorane Plus;

Dicofol;

Hexabromocyclododecane;

Hexachlorobutadiene;

Pentachlorophenol and its salts and esters;

Polychlorinated naphthalenes;

Medium-chain chlorinated paraffins;

etc

	- Goods specified in Subheading Note 3 to this Chapter :
3824.81	Containing oxirane (ethylene oxide)
3824.82	Containing polychlorinated biphenyls (PCBs), polychlorinated terphenyls (PCTs) or polybrominated biphenyls (PBBs)
3824.83	Containing tris(2,3-dibromopropyl) phosphate
3824.84	Containing aldrin (ISO), camphechlor (ISO) (toxaphene), chlordane (ISO), chlordecone (ISO), DDT (ISO) (clofenotane (INN), 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane), dieldrin (ISO, INN), endosulfan (ISO), endrin (ISO), heptachlor (ISO) or mirex (ISO)
3824.85	Containing 1,2,3,4,5,6-hexachlorocyclohexane (HCH (ISO)), including lindane (ISO, INN)
3824.86	Containing pentachlorobenzene (ISO) or hexachlorobenzene (ISO)
3824.87	Containing perfluorooctane sulphonic acid, its salts, perfluorooctane sulphonamides, or perfluorooctane sulphonyl fluoride
3824.88	Containing tetra-, penta-, hexa-, hepta- or octabromodiphenyl ethers
3824.89	Containing short-chain chlorinated paraffins
	- Other :
3824.91	Mixtures and preparations consisting mainly of (5-ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl)methyl methylphosphonate and bis[(5-ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl)methyl] methylphosphonate
3824.92	Polyglycol esters of methylphosphonic acid
3824.99	Other

Amendments HS 2028

Subheading 2930.80.

Delete and substitute:

 Compounds specified in Subheading Note 3 to this Chapter :

2930.81 -- Aldicarb (ISO), captafol (ISO) and methamidophos (ISO)

2930.82 -- Phorate (ISO) and terbufos (ISO)".

2931.84 -- Trichlorfon (ISO)

CHAPTER 29.

New Subheading Note 3.

Insert the following new Subheading Note 3 to Chapter 29:

"3.- Subheadings 2930.81 and 2930.82 cover only aldicarb (ISO), captafol (ISO), methamidophos (ISO), phorate (ISO) and terbufos (ISO).".

New subheading 2903.84.

Insert the following new subheading:

"2903.84 -- Hexabromocyclododecanes (HBCDs)".

Subheading 2909.30.

Delete and substitute:

 Aromatic ethers and their halogenated, sulphonated, nitrated or nitrosated derivatives :

2909.31 -- Decabromodiphenyl ether

2909.39 -- Other".

Subheading 2915.90.

Delete and substitute:

· - Other:

2915.91 -- Perfluorooctanoic acids and their salts

2915.99 -- Other".

Pesticides - Chapter 38 HS 2028



Subheading Notes.

1.- Subheadings 3808.52 and 3808.59 cover only goods of heading 38.08, containing one or more of the following substances: alachlor (ISO); aldicarb (ISO); aldrin (ISO); azinphos-methyl (ISO); binapacryl (ISO); camphechlor (ISO) (toxaphene); captafol (ISO); carbofuran (ISO); chlordane (ISO); chlordimeform (ISO); chlorobenzilate (ISO); DDT (ISO) (clofenotane (INN), 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane); dieldrin (ISO, INN); 4,6-dinitro-o-cresol (DNOC (ISO)) or its salts; dinoseb (ISO), its salts or its esters; endosulfan (ISO); ethylene dibromide (ISO) (1,2-dibromoethane); ethylene dichloride (ISO) (1,2-dichloroethane); fluoroacetamide (ISO); heptachlor (ISO); hexachlorobenzene (ISO); 1,2,3,4,5,6-hexachlorocyclohexane (HCH (ISO)), including lindane (ISO, INN); mercury compounds; methamidophos (ISO); monocrotophos (ISO); oxirane (ethylene oxide); parathion (ISO); parathion-methyl (ISO) (methyl-parathion); pentachlorophenol (ISO), its salts or its esters; perfluorooctane sulphonic acid and its salts; perfluorooctane sulphonamides; perfluorooctane sulphonyl fluoride; phorate (ISO); phosphamidon (ISO); terbufos (ISO); 2,4,5-T (ISO) (2,4,5-trichlorophenoxyacetic acid), its salts or its esters; tributyltin compounds; trichlorfon (ISO).

Note that all pesticides contained in Subheading Note 1 are controlled by Rotterdam and subject to PIC procedures

All other insecticides not contained in Subheading Note 1 and some from Stockholm may be classified here

Terbufos and phorate were included in Subheading Note 1 New pesticides approved by Rotterdam, not included in Subheading Note 1, are classified in 3908.91

	H.S. Code	
		Insecticides, rodenticides, fungicides, herbicides, anti-sprouting products and plant-growth regulators, disinfectants and similar products, put up in forms or packings for retail sale or as preparations or articles (for example, sulphur-treated bands, wicks and candles, and fly-papers).
		- Goods specified in Subheading Note 1 to this Chapter :
	3808.52	DDT (ISO) (clofenotane (INN)), in packings of a net weight content not exceeding 300 g
	3808.59	Other
		- Goods specified in Subheading Note 2 to this Chapter:
	3808.61	In packings of a net weight content not exceeding 300 g
	3808.62	In packings of a net weight content exceeding 300 g but not exceeding 7.5 kg
	3808.69	Other
		- Other :
1	3808.91	Insecticides
	3808.92	Fungicides
	3808.93	Herbicides, anti-sprouting products and plant-growth regulators
	3808.94	Disinfectants
	3808.99	Other

38.08

Preparations - Chapter 38 HS 2028



Subheading Notes.

3.- Subheadings 3824.81 to 3824.89 cover only mixtures and preparations containing one or more of the following substances: oxirane (ethylene oxide); polybrominated biphenyls (PBBs); polychlorinated biphenyls (PCBs); polychlorinated terphenyls (PCTs); tris(2,3-dibromopropyl) phosphate; aldrin (ISO); camphechlor (ISO) (toxaphene); chlordane (ISO); chlordecone (ISO); DDT (ISO) (clofenotane (INN); 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane); dieldrin (ISO, INN); endosulfan (ISO); endrin (ISO); heptachlor (ISO); mirex (ISO); 1,2,3,4,5,6-hexachlorocyclohexane (HCH (ISO)), including lindane (ISO, INN); pentachlorobenzene (ISO); hexachlorobenzene (ISO); perfluoroctane sulphonic acid, its salts; perfluoroctane sulphonamides; perfluoroctane sulphonyl fluoride; tetra-, penta-, hepta-, octa or decabromodiphenyl ethers; hexabromocyclododecanes (HBCDs); short-chain chlorinated paraffins.

Short-chain chlorinated paraffins are mixtures of compounds, with a chlorination degree of more than 48 % by weight, with the following molecular formula: $C_xH_{(2x-y+2)}Cl_y$, where x=10 - 13 and y= 1 - 13.

Preparations containing substances controlled by Rotterdam and Stockholm

Preparations containing substances controlled by Rotterdam

Other preparations not mentioned in Subheading Note 3 containing Decabromodiphenyl ether:

Dechlorane Plus:

Dicofol;

Hexabromocyclododecane;

Hexachlorobutadiene;

Pentachlorophenol and its salts and esters;

Polychlorinated naphthalenes;

Medium-chain chlorinated paraffins;

etc

1	- Goods specified in Subheading Note 3 to this Chapter :
3824.81	Containing oxirane (ethylene oxide)
3824.82	Containing polychlorinated biphenyls (PCBs), polychlorinated terphenyls (PCTs) or polybrominated biphenyls (PBBs)
3824.83	Containing tris(2,3-dibromopropyl) phosphate
3824.84	Containing aldrin (ISO), camphechlor (ISO) (toxaphene), chlordane (ISO), chlordecone (ISO), DDT (ISO) (clofenotane (INN), 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane), dieldrin (ISO, INN), endosulfan (ISO), endrin (ISO), heptachlor (ISO) or mirex (ISO)
3824.85	Containing 1,2,3,4,5,6-hexachlorocyclohexane (HCH (ISO)), including lindane (ISO, INN)
3824.86	Containing pentachlorobenzene (ISO) or hexachlorobenzene (ISO)
3824.87	Containing perfluorooctane sulphonic acid, its salts, perfluorooctane sulphonamides, or perfluorooctane sulphonyl fluoride, or perfluorooctanoic acids and their salts
3824.88	Containing tetra-, penta, hexa-, hepta-, octa- or decabromodiphenyl ether or hexabromocyclodecanes (HBCDs
3824.89	Containing short-chain chlorinated paraffins
3824.91	- Other: - Mixtures and preparations consisting mainly of (5-ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl)methyl methyl methylphosphonate and bis[(5-ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphinan-5-yl)methyl] methylphosphonate
3824.92	Polyglycol esters of methylphosphonic acid
3824.99	Other



List of substances and their preparations controlled under the Rotterdam and Stockholm Conventions with HS 2022 and HS 2028* codes

* Amendment will come into force on 1/1/2028

SUBSTANCES AND THEIR PREPARATIONS CONTROLLED UNDER THE ROTTERDAM CONVENTION

The Rotterdam Convention covers pesticides and industrial chemicals that have been banned or severely restricted for health or environmental reasons by Parties and which have been notified by Parties for inclusion in the Prior Informed Consent (PIC) procedure.

The PIC procedure is a mechanism for formally obtaining and disseminating the decisions of importing Parties as to whether they wish to receive future shipments of those chemicals listed in Annex III of the Convention and for ensuring compliance with these decisions by exporting Parties.

The followings are the substances controlled under the Rotterdam Convention with their HS 2022 codes:

PESTICIDES	CAS No	HS2022	HS
		HS2028	(Preparations)
2,4,5-T (ISO) (2,4,5	93-76-5**	2918.91	3808.59
trichlorophenoxiacetic acid), and			
its salts and esters			
Alachlor	15972-60-8	2924.25	3808.59
Aldicarb	116-06-3	2930.80	3808.59
		2930.81	
Aldrin	309-00-2	2903.82	3808.59
			3824.84
Azinphos-methyl	86-50-0	2933.92	3808.59
Binapacryl	485-31-4	2916.16	3808.59
Captafol	2425-06-1	2930.80	3808.59
		2930.81	
Carbofuran	1563-66-2	2932.96	3808.59
Chlordane	57-74-9	2903.82	3808.59
			3824.84
Chlordimeform	6164-98-3	2925.21	3808.59
Chlorobenzilate	510-15-6	2918.18	3808.59
DDT	50-29-3	2903.92	3808.52
			3808.59
			3824.84
Dieldrin	60-57-1	2910.40	3808.59
			3824.84
Dinitro-ortho-cresol (DNOC) and	534-52-1	2908.92	3808.59
its salts (such as ammonium salt,	2980-64-5		
potassium salt	5787-96-2		
and sodium salt)	2312-76-7		
Dinoseb and its salts and esters (esters 2915.36, etc)	88-85-7**	2908.91	3808.59
Dinoseb acetate	2813-95-8	2915.36	3808.59

EDB (1,2-dibromoethane)	106-93-4	2903.62	3808.59
(.,			3811.19
			3827.90
Endosulfan	115-29-7	2920.30	3808.59
			3824.84
FAlsodono disklasido	407.00.0	0002.45	2000 50
Ethylene dichloride	107-06-2	2903.15	3808.59
			3827.90
Ethylene oxide	75-21-8	2910.10	3808.59
Luiyielle oxide	73-21-0	2310.10	
			3824.81
Fluoroacetamide	640-19-7	2924.12	3808.59
	0.0.0.		5555.55
HCH (mixed isomers)	608-73-1	2903.81	3808.59
`			3824.85
Heptachlor	76-44-8	2903.82	3808.59
			3824.84
Hexachlorobenzene	118-74-1	2903.92	3808.59
nexacilloropenzene	110-74-1	2903.92	
			3824.86
Lindane (gamma-HCH)	58-89-9	2903.81	3808.59
Lindane (gamma-non)	30-03-3	2300.01	
			3824.85
Mercury compounds, including		2852.10	3808.59
inorganic mercury compounds,			
alkyl mercury compounds and			
alkyloxyalkyl and aryl mercury			
compounds			
Methamidophos	10265-92-6	2930.80	3808.59
Methaniaophos	10200-02-0	2930.81	0000.00
		2930.61	
Monocrotophos	6923-22-4	2924.12	3808.59
•			
Parathion	56-38-2	2920.11	3808.59
Donto obligate hand and the colta	87-86-5**	2908.11	2000 50
Pentachlorophenol and its salts	87-80-5***		3808.59
and esters		2908.19	3824.99
Phorate	298-02-2	2930.90	3808.91
	200 02-2	2930.82	3808.59
		2930.62	3000.09
Terbufos	13071-79-9	2930.90	3808.91
		2930.82	3808.59
	0004 05 0		
Toxaphene (camphechlor)	8001-35-2	n.a	3808.59
			3824.84
Tributyl tin compounds	1461 22.0	2024.20	3808.59
moutyr un compounds	1461-22-9,	2931.20	3808.59
	1983-10-4,		
	2155-70-6,		
	24124-25-2,		
	4342-36-3,		
	56-35-9,		
	85409-17-2		
Trichlorfon	52-68-6	2931.54	3808.59
		2931.84	
		2001.04	

Dustable powder formulations containing a combination of benomyl at or above 7%, carbofuran at or above 10% and thiram at or above 15%	137-26-8, 1563-66-2, 17804-35-2	n.a	3808.59
Methyl-parathion (Emulsifiable concentrates (EC) at or above 19.5% active ingredient and dusts at or above 1.5% active ingredient)	298-00-0	2920.11 (pure)	3808.59
Phosphamidon (Soluble liquid formulations of the substance that exceed 1000 g active ingredient/I)	13171-21-6 23783-98-4 (Z isomer) 297-99-4 (E isomer)	2924.12 (pure or isomer)	3808.59

INDUCTOR	NI CUEMICAL	CAON	1100000	110
	AL CHEMICAL	CAS No	HS2022	HS
SUBSTAN			HS2028	(Mixtures)
Asbestos	Actinolite asbestos	77536-66-4	2524.90	6811.40
	Amosite asbestos	12172-73-5	2524.90	68.12
	Anthophyllite asbestos	77536-67-5	2524.90	6813.20
	Crocidolite asbestos	12001-28-4	2524.10	
	Tremolite asbestos	77536-68-6	2524.90	
Commercia	al octabromodiphenyl	36483-60-0	2909.30	3824.88
ether (incl	uding	(Hexa),	2909.39	
hexabromo	odiphenyl ether and	68928-80-3		
heptabrom	odiphenyl ether)	(Hepta)		
	al pentabromodiphenyl	32534-81-9	2909.30	3824.88
ether (incl		(Penta),	2909.39	
	odiphenyl ether and	40088-47-9		
pentabrom	odiphenyl ether)	(Tetra)		
Decabrom	odiphenyl ether	1163-19-5	2909.30	3824.99
(decaBDE)			2909.31	3824.88
Hexabromo	ocyclododecane	25637-99-4	2903.89	3824.99
(HBCDs)		3194-55-6	2903.84	3824.88
		134237-50-6		
		134237-51-7		
		134237-52-8		
	ctane sulphonic acid,	1691-99-2,	2904.31	3808.59
	ctane sulphonates,	1763-23-1,	2904.32	3824.87
	ctane sulphonamides	24448-09-7,	2904.33	
and perflu	prooctane sulphonyls	251099-16-8,	2904.34	
		2795-39-3,	2904.36	
		29081-56-9,	2922.16	
		29457-72-5,	2923.30	
		307-35-7,	2923.40	
		31506-32-8,	2935.10	
		4151-50-2,	2935.20	
		56773-42-3,	2935.30	
		70225-14-8	2935.40	

SUBSTANCES AND THEIR PREPARATIONS CONTROLLED UNDER THE ROTTERDAM CONVENTION

Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	335-67-1	2915.90 2915.91	3824.87
Polybrominated Biphenyls (PBBs)	13654-09-6, 27858-07-7, 36355-01-8	2903.94 2903.99	3824.82
Polychlorinated Biphenyls (PCBs)	1336-36-3	2903.99	3824.82
Polychlorinated Terphenyls (PCTs)	61788-33-8	2903.99	3824.82
Short-chain chlorinated paraffins (SCCP)	85535-84-8		3824.89
Tetraethyl lead	78-00-2	2931.10	3811.11 3824.99
Tetramethyl lead	75-74-1	2931.10	3811.11 3824.99
Tributyltin compounds	1461-22-9, 1983-10-4, 2155-70-6, 24124-25-2, 4342-36-3, 56-35-9, 85409-17-2	2931.20	3808.59
Tris(2,3- dibromopropyl)phosphate	126-72-7	2919.10	3824.83

^{**} Only the CAS numbers of parent compounds are listed. For a list of other relevant CAS numbers, reference may be made to the relevant Decision Guidance Document.

Rows in red means that the chemical is controlled by both Rotterdam and Stockholm Conventions (subject to the PIC procedure)

Aldrin	309-00-2	2903.82	3808.59
			3824.84

SUBSTANCES AND THEIR PREPARATIONS CONTROLLED UNDER THE STOCKHOLM CONVENTION

CONTROLLED L	INDER I	HE 5100	KHUL	IM CONV
CHEMICAL ANNEX A	Category	CAS No	HS2022	HS
			HS2028	(Preparations)
Aldrin	Pesticide	309-00-2	2903.82	3808.59
				3824.84
Chlordane	Pesticide	57-74-9	2903.82	3808.59
Ohlanda aana*	D#-id-	440.50.0	0044.74	3824.84
Chlordecone*	Pesticide	143-50-0	2914.71	3808.91 3824.84
Chlorpyrifos*	Pesticide	2921-88-2	2933.39	3808.91
Chiorpythos	resucide	2921-00-2	2900.09	3824.99
Dechlorane Plus*	Flame	13560-89-9	2903.89	3824.99
2001110141101140	retardant,	135821-03-3	2000.00	0021100
	particularly in	135821-74-8		
	electrical and			
	electronic			
Dicofol*	equipment Pesticide	115-32-2	2906.29	3808.91
District	i osacide	10606-46-9	2500.25	3824.99
Dieldrin	Pesticide	60-57-1	2910.40	3808.59
				3824.84
Endosulfan*	Pesticide	115-29-7	2920.30	3808.59
		959-98-8;		3824.84
		33213-65-9		
Endrin	Pesticide	72-20-8	2910.50	3808.91
Hantachian	Destiside	70.44.0	0000 00	3824.84
Heptachlor	Pesticide	76-44-8	2903.82	3808.59 3824.84
Hexabromobiphenyl*	Flame	36355-01-8	2903.94	3824.82
Hexabioinobipilettyi	retardant	59536-65-1	2903.94	3024.02
	Total dance	67774-32-7		
Hexabromocyclododecane*	Flame	25637-99-4	2903.89	3824.99
	retardant	3194-55-6	2903.84	3824.88
		134237-50-6		
		134237-51-7		
		134237-52-8		
Tetrabromodiphenyl ether*	Flame	40088-47-9	2909.30 2909.39	3824.88
Pentabromodiphenyl ether*	retardant Flame	5436-43-1 32534-81-9	2909.39	3824.88
remabioinodiphenyl ether	retardant	60348-60-9	2909.39	3024.00
Hexabromodiphenyl ether*	Flame	68631-49-2	2909.30	3824.88
. ionali omolipiion, i omo	retardant	36483-60-0**	2909.39	5521.55
Heptabromodiphenyl ether*	Flame	446255-20-5	2909.30	3824.88
•	retardant	68928-80-3**	2909.39	
Octabromodiphenyl ether	Flame	32536-52-0	2909.30	3824.88
	retardant		2909.39	
Decabromodiphenyl ether*	Flame	1163-19-5	2909.30	3824.99
c-decaBDE	retardant additive		2909.31	3824.88
Hexachlorobenzene (HCB)	Pesticide	118-74-1	2903.92	3808.59
rioxaciiioioberizerie (riob)	i osacide	110-74-1	2000.02	3824.86

Hexachlorobutadiene* (HCBD)	Solvent	87-68-3	2903.29	3824.99
Hexachlorocyclohexanes HCH*	Pesticide	608-73-1	2903.81	3808.59 3824.85
alpha-HCH*	Pesticide	319-84-6	2903.81	3808.59 3824.85
beta-HCH*	Pesticide	319-85-7	2903.81	3808.59 3824.85
gamma-HCH (Lindane)*	Pesticide	58-89-9	2903.81	3808.59 3824.85
delta-HCH	Pesticide	319-86-8	2903.81	3808.59 3824.85
Long-chain perfluorocarboxylic acids, their salts and related compounds*	Additive in several products	No info		
Mirex	Pesticide	2385-85-5	2903.83	3808.91 3824.84
Pentachlorobenzene*	Several uses	608-93-5	2903.93	3824.86
Pentachlorophenol and its salts and esters*	Pesticide	87-86-5**	2908.11 2908.19	3808.59 3824.99
Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds*	Used in several consumer goods	355-46-4	2904.99	
Polychlorinated biphenyls, (PCBs)	Industrial	1336-36-3	2903.99	3824.82
Polychlorinated naphthalenes*	Used in several applications	70776-03-3	2903.99	3824.99
Perfluorooctanoic acid (PFOA), its salts and PFOA- related compounds*	Production of fluoro elastomers and fluoropolymers	335-67-1	2915.90 2915.91	3824.87
Short-chain chlorinated paraffins*	Additive in several products	85535-84-8; 68920-70-7; 71011-12-6; 85536-22-7; 85681-73-8; 108171-26-2		3824.89
Medium-chain chlorinated paraffins*	Additive in several products	No info		3824.99
Methoxychlor*	Pesticide	72-43-5	2909.30	3808.91
Toxaphene	Pesticide	8001-35-2		3808.59 3824.84
UV-328	Light stabilizer for plastics	25973-55-1	2933.99	3824-99

SUBSTANCES AND THEIR PREPARATIONS CONTROLLED UNDER THE STOCKHOLM CONVENTION

CHEMICAL ANNEX B	Category	CAS No	HS2022 HS2028	HS (Preparations)
DDT	Pesticide	50-29-3	2903.92	3808.52 3808.59 3824.84
Perfluorooctane sulphonic acid, (PFOS) its salts*: Ammonium	Used in several products	1763-23-1 29081-56-9	2904.31	3808.59 3824.87
perfluorooctane sulphonate Lithium perfluorooctane	products	29457-72-5	2904.32	
sulphonate Potassium perfluorooctane sulphonate Other salts		2795-39-3	2904.34 2904.35	
Perfluorooctane sulphonyl fluoride (PFOSF)*	Used in several products	307-35-7	2904.36	3824.87
CHEMICAL ANNEX C	Category	CAS No	HS2022 HS2028	HS (Preparations)
Hexachlorobenzene (HCB)	Industrial By-product	118-74-1	2903.92	3808.59 3824.86
Hexachlorobutadiene* (HCBD)	By-product	87-68-3	2903.29	3824.99
Pentachlorobenzene*	Industrial By-product	608-93-5	2903.93	3824.86
Polychlorinated biphenyls, (PCBs)	Industrial By-product	1336-36-3	2903.99	3824.82
Polychlorinated dibenzo-p- dioxins (PCDDs)	By-product		2932.99	3824.99
Polychlorinated dibenzofurans (PCDFs)	By-product		2932.99	3824.99
Polychlorinated naphthalenes*	Used in several applications	70776-03-3	2903.99	3824.99

^{*} New POPs

Rows in red means that the chemical is controlled by both Rotterdam and Stockholm Conventions (and therefore, subject to the PIC procedure)

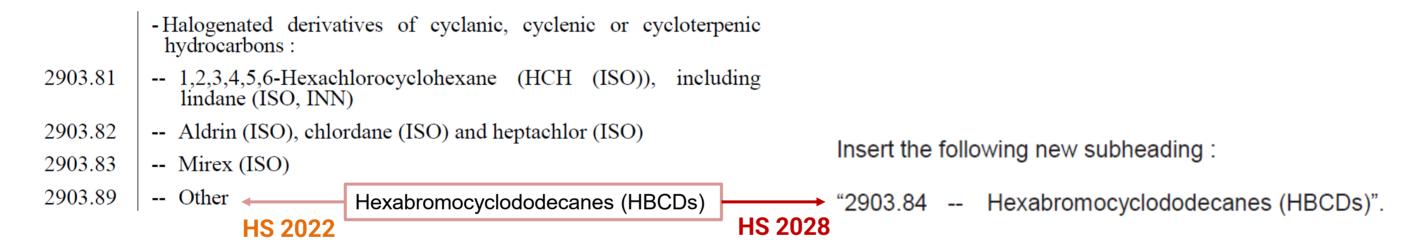
Aldrin	Pesticide	309-00-2	2903.82	3808.59
				3824.84

^{**} Only the CAS numbers of parent compounds are listed. For a list of other relevant CAS numbers, reference may be made to the relevant Decision Guidance Document.

Some limitations to the HS codes as unique identifiers



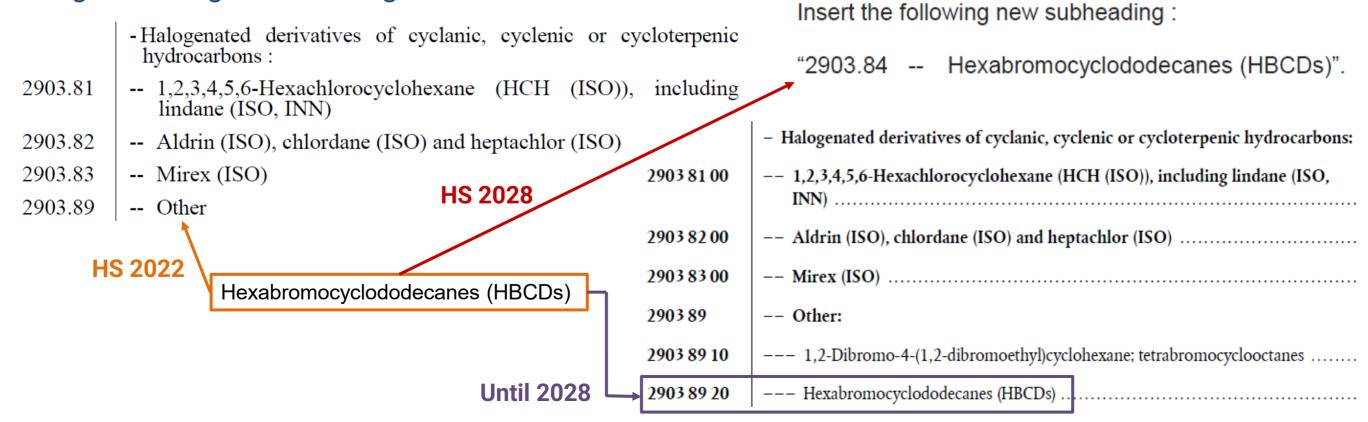
- There are no enough 6-digit codes to identify each chemical
- Some chemicals fall into generic "basket" HS codes call "other"



The amendment will be implemented in 2028!!! What could be done until then?

Unique identifiers at national/regional level

- To identify a substance not specifically mentioned at 6-digit level, such as hexabromocyclododecanes (HBCDs), the region or country could open a specific national (or regional if applicable) subheading for such substance, using as many digits as the ones used in national or regional subheadings.
- For example, the European Union use at regional level 8-digits. The EU has identified hexabromocyclododecanes (HBCDs) by expanding international subheading 2903.89 "-- Other" to regional 8-digit subheading.



RECOMMENDATION OF THE CUSTOMS CO-OPERATION COUNCIL* ON THE INSERTION IN NATIONAL STATISTICAL NOMENCLATURES OF SUBHEADINGS TO FACILITATE THE COLLECTION AND COMPARISON OF DATA ON THE INTERNATIONAL MOVEMENT OF CERTAIN SUBSTANCES CONTROLLED UNDER THE ROTTERDAM CONVENTION (22 JUNE 2023)

(AMENDED 27 JUNE 2024 AND 26 JUNE 2025)

THE CUSTOMS CO-OPERATION COUNCIL.

CONSIDERING the urgent need to control and monitor the international trade of certain substances controlled under the Rotterdam Convention,

NOTING the request by the Rotterdam Convention for the collection and comparison of data on the international movement of the compounds, "hexabromocyclododecane", "phorate", "decabromodiphenyl ether", "perfluorooctanoic acids and their salts" and "terbufos", included in the Annex III of the Convention,

RECOGNIZING that amendments to the Harmonized System Convention cannot be implemented for several years,

RECOMMENDS that Member Administrations and Contracting Parties to the Harmonized System Convention take all appropriate action to insert the following additional subdivisions in their statistical nomenclatures as soon as possible, and

REQUESTS Member Administrations and Contracting Parties to the Harmonized System Convention to notify the Secretary General of their acceptance of this Recommendation and the date of its application:

Subheading 2903.89

- - - Hexabromocyclododecanes (HBCDs)

Subheading 2909.30

- - Decabromodiphenyl ether

Subheading 2915.90

- - Perfluorooctanoic acids and their salts

Subheading 2930.90

Either:

- - Phorate (ISO)
- - Terbufos (ISO)



WCO Recommendations to open specific HS codes at national level

Sources of information



- Chemspider https://pubchem.ncbi.nlm.nih.gov/
- ChemID https://pubchem.ncbi.nlm.nih.gov/
- Wikipedia https://en.wikipedia.org/wiki/Main_Page
- Emergency Response Guidebook
 http://www.tc.gc.ca/eng/canutec/guide-menu-227.htm
- ECICS
 http://ec.europa.eu/taxation_customs/dds2/ecics/chemicalsubstance_consultation.jsp?Lang=en
- ECHA https://echa.europa.eu/home
- Material Safety Data Sheets https://chemicalsafety.com/sds-search/
- BRS website https://www.pops.int/TheConvention/ThePOPs/AllPOPs/tabid/2509/Default.aspx

LIST ⇒ CAS ⇒ CHEMICAL INFORMATION ⇒ HS CODES ⇒ LABELLING ⇒ INCIDENTS ⇒ REGISTRATION

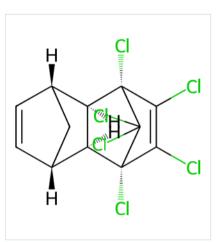
ChemSpider

Search and share chemistry

Simple Structure Advanced

Found 1 result

Search term: 309-00-2 (Found by Approved Synonyms)



Aldrin

Molecular formula: C₁₂H₈Cl₆

Average mass: 364.896

Monoisotopic mass: 361.875716

ChemSpider ID: 10292747

€ 6/6 defined W



Cite this record

+ Structural identifiers

Names Properties Spectra Vendors

- Names and synonyms

Verified

(1R,2R,3R,6S,7S,8S)-1,8,9,10,11,11-Hexachlorotetracyclo[6.2.1.1~3,6~.0~2,7~]dodeca-4,9-diene [IUPAC name – generated by ACD/Name]

(1R,2R,3R,6S,7S,8S)-1,8,9,10,11,11-Hexachlorotétracyclo[6.2.1.1~3,6~.0~2,7~]dodéca-4,9-diène [French] [IUPAC name – generated by ACD/Name]

(1R,2R,3R,6S,7S,8S)-1,8,9,10,11,11-Hexachlortetracyclo[6.2.1.1~3,6~.0~2,7~]dodeca-4,9-dien [German] [IUPAC name – generated by ACD/Name]





Q Search PubChem

COMPOUND SUMMARY

Aldrin

PubChem CID	12310947
Structure	2D 3D
Primary Hazards	Acute Toxic Health Environmental Hazard Laboratory Chemical Safety Summary (LCSS) Datasheet
Molecular Formula	C ₁₂ H ₈ Cl ₆
Synonyms	aldrin HHDN 309-00-2 Aldocit Aldrine View More
Molecular Weight	364.9 g/mol Computed by PubChem 2.2 (PubChem release 2025.04.14)
Dates	Create: Modify: 2007-02-07 2025-08-30
Description	Aldrin can cause cancer according to an independent committee of scientific and health experts. • California Office of Environmental Health Hazard Assessment (OEHHA) Aldrin, liquid appears as a solution in oil of aldrin, a noncombustible water-insoluble solid. Used as an insecticide. Mixed with a flammable carrier solvent.

CONTENTS	
Title and Summary	
1 Structures	
2 Names and Identifiers	
3 Chemical and Physical Properties	
4 Spectral Information	
5 Related Records	
6 Chemical Vendors	
7 Drug and Medication Information	
8 Agrochemical Information	
9 Pharmacology and Biochemistry	
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Wikipedia

Aldrin is an organochlorine insecticide that was widely used until the 1990s, when it was banned in most countries. Aldrin is a member of the so-called "classic organochlorines" (COC) group of pesticides. COCs enjoyed a very sharp rise in popularity during and after World War II. Other noteworthy examples of COCs include dieldrin and DDT.[3] After research showed that organochlorines can be highly toxic to the ecosystem through bioaccumulation, most were banned from use. Before the ban, it was heavily used as a pesticide to treat seed and soil. Aldrin and related "cyclodiene" pesticides (a term for pesticides derived from Hexachlorocyclopentadiene) became notorious as persistent organic pollutants.[4]

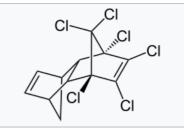
Structure and Reactivity [edit]

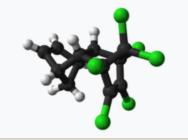
Pure aldrin takes form as a white crystalline powder. Though it is not soluble in water (0.003% solubility), aldrin dissolves very well in organic solvents, such as ketones and paraffins.^[5] Aldrin decays very slowly once released into the environment. Though it is rapidly converted to dieldrin by plants and bacteria, dieldrin maintains the same toxic effects and slow decay of aldrin. [6] Aldrin is easily transported through the air by dust particles. Aldrin does not react with mild acids or bases and is stable in an environment with a pH between 4 and 8. It is highly flammable when exposed to temperatures above 200 °C[7] In the presence of oxidizing agents aldrin reacts with concentrated acids and phenols.

Synthesis [edit]

Aldrin is not formed in nature. It is named after the German chemist Kurt Alder, one of the coinventors of this kind of reaction. Aldrin is synthesized by combining hexachlorocyclopentadiene with norbornadiene in a Diels-Alder reaction to give the adduct.[8] In 1967, the composition of technical-grade aldrin was reported to consist of 90.5% of hexachlorohexahydrodimethanonaphthalene (HHDN).[6]

Aldrin





Preferred IUPAC name

(1R,4S,4aS,5S,8R,8aR)-1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8dimethanonaphthalene

HHDN[1]

octalene[1]	
	Identifiers
CAS Number	309-00-2 ₺ 🗸
3D model (JSmol)	Interactive image ₽
ChEBI	CHEBI:2564 ₺
ChEMBL	ChEMBL195953 ₺
ChemSpider	10292747 🗗 🗸
ECHA InfoCard	100.005.652 🗗 🧪
EC Number	206-215-8
KEGG	C07552 ₽ ✓
PubChem CID	2087₺
RTECS number	IO2100000
UNII	OZE3CLY605 ₽ ✓
UN number	2762, 2761
CompTox Dashboard (EPA)	DTXSID8020040 ₺ 🖍
InChl	[hide]
	6/c13-8-9(14)11(16)7-5-2-1-4 5)12(11,17)18/h1-2,4-7H,3H2/t

4-,5+,6+,7-,10+,11-

Key: QBYJBZPUGVGKQQ-SJJAEHHWSA-N√

nChl=1/C12H8Cl6/c13-8-9(14)11(16)7-5-2-1-4 (3-5)6(7)10(8,15)12(11,17)18/h1-2,4-7H,3H2/t 4-,5+,6+,7-,10+,11-Key: QBYJBZPUGVGKQQ-SJJAEHHWBI

SMILES show

Properties C₁₂H₈Cl₆ Chemical formula 364.90 g·mol-1 Molar mass Colorless solid Appearance 1.60 g/mL^[1] Density 104 °C (219 °F; 377 K) Melting point Solubility in water slightly soluble (0.003%)[1] 7.5 × 10⁻⁵ mmHg @ 20 °C Vapor pressure **Pharmacology** AU: S6 (Poison) Legal status Hazards Occupational safety and health (OHS/OSH): Toxic and is a suspected Main hazards human carcinogen[1] GHS labelling:

\vee \vee \vee
Danger
H300, H301, H310, H311

Pictograms

H351, H372, H410 Precautionary P201, P202, P260, P262, statements P264, P270, P273, P280, P281, P301+P310, P302+P350, P302+P352, P308+P313, P310, P312, P314, P321, P322, P330, P361, P363, P391, P405,

P501 **NFPA 704** (fire diamond)

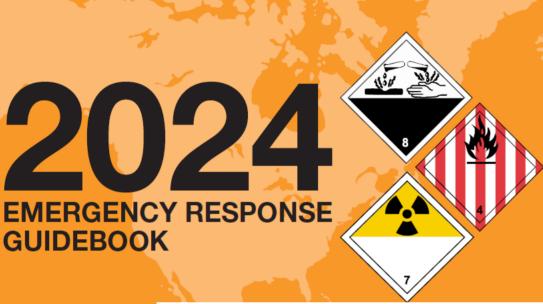


Lethal dose or concentration (LD, LC):

published)

LD ₅₀ (median	50 mg/kg (rabbit, oral)
dose)	33 mg/kg (guinea pig, oral)
	39 mg/kg (rat, oral)
	44 mg/kg (mouse, oral)[2]
LC _{La} (lowest	5.8 mg/m ³ (rat. 4 hr) ^[2]

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Hazard identification numbers, utilized under European and some South American regulations, may be found in the top half of an orange panel on some intermodal bulk containers. The 4-digit ID number is in the bottom half of the orange panel.

HAZARD IDENTIFICATION NUMBERS

DISPLAYED ON SOME INTERMODAL CONTAINERS

The hazard identification number in the top half of the orange panel consists of two or three digits. In general, the digits indicate the following hazards:

- 2 Emission of gas due to pressure or to chemical reaction
- 3 Flammability of liquids (vapors) and gases or self-heating liquid
- 4 Flammability of solids or self-heating solid
- 5 Oxidizing (fire-intensifying) effect
- 6 Toxicity or risk of infection
- 7 Radioactivity
- 8 Corrosivity
- 9 Risk of spontaneous violent reaction

Guide Name of Material No. No. N-Ethyl-N-benzylaniline 2275 129 2-Ethylbutanol 2-Ethylhexylamine 2276 Ethyl methacrylate, stabilized 2278 128 n-Heptene 2279 151 Hexachlorobutadiene 2280 153 Hexamethylenediamine, solid 2281 156 Hexamethylene diisocyanate

Hexanols

2282 129













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EMERGENCY RESPONSE

SUBSTANCES - TOXIC (NON-COMBUSTIBLE)

FIRE

Small Fire

Dry chemical, CO₂ or water spray.

Large Fire

- Water spray, fog or regular foam.
- If it can be done safely, move undamaged containers away from the area around the fire.
- Dike runoff from fire control for later disposal.
- · Avoid aiming straight or solid streams directly onto the product.

Fire Involving Tanks, Rail Tank Cars or Highway Tanks

- · Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.
- · Do not get water inside containers.
- · Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks in direct contact with flames.
- For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- · Stop leak if you can do it without risk.
- · Prevent entry into waterways, sewers, basements or confined areas.
- · Cover with plastic sheet to prevent spreading.
- · Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- DO NOT GET WATER INSIDE CONTAINERS.
- For solids, prevent dust cloud and avoid inhalation of dust.

FIRST AID

Refer to the "General First Aid" section.

GUIDE

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ECICS Consultation

Search for chemical substance information

38248400

309-00-2

ECCS Taxation and Customs Union

What's new? Information FAQ Mail Box

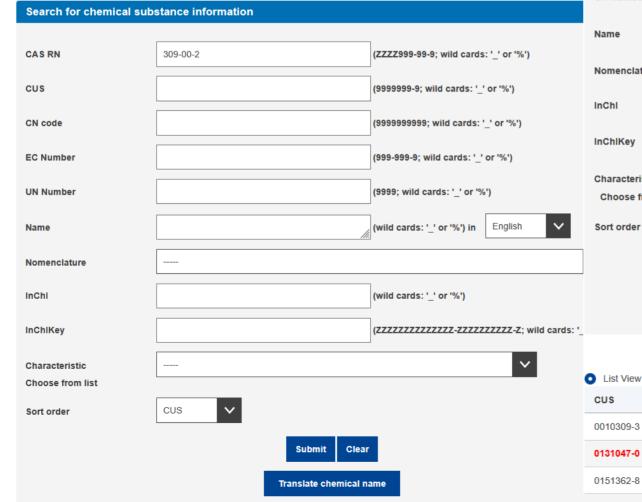
European Commission > Taxation and Customs Union > Databases > ECICS > ECICS Consultation

You have not found your product in ECICS? You may want to check our 10-minute learning course, which provides tips and guidance on searching and using ECICS effect cannot find what you are looking for, please send a message to our mailbox taxud-dds-ecics@ec europa.eu with the maximum of information (description of the product, C name and structure, uses, exact composition with components, safety data sheet, etc.).

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ECICS Consultation

Last update: 17-0



CASRN 309-00-2 (ZZZZ999-99-9; wild cards: ' ' or '%') (9999999-9; wild cards: ' ' or '%') (999999999; wild cards: ' 'or '%') (999-999-9; wild cards: ' ' or '%') **EC Number UN Number** (9999; wild cards: '_' or '%') English Name (wild cards: '_' or '%') in Nomenclature **ECICS** product details (W CN code CAS RN **ECHA links** 309-00-2 38085900 Infocard URL InChlKey Names Characteristic Order Level Choose from list + Name CUS Sort order Characteristics Clear Rotterdam Convention (PIC) Submit Stockholm Convention (POP)



206-215-8

Translate chemical name

Regulation Information

Registered in REACH Needing a safety datasheet

Included in CN annex 3 Included in CN annex 6

COMMON

preparation containing al.

Search the ECHA Web Contact

LEGISLATION

CONSULTATIONS

SEARCH FOR CHEMICALS

ECHA > Search for chemicals

Search for chemicals

Search for REACH registrations

ECHA CHEM contains data submitted and processed until May 21 2025. The processing is currently paused due to adaptation to the new IUCLID have resumed normal operations as of 21 July 2025, while REACH registration dossiers will resume by mid-September 2025. Also, circa 300 regi unavailable following a technical problem and will be restored in the coming months.

We continue to develop ECHA CHEM further with several releases planned throughout the year, which will bring additional data and improvement

The information from REACH registration dossiers and C&L Inventory has moved to ECHA's new chemicals database, ECHA CHEM, REACH registration data on this page is no longer maintained; it remains frozen as of 19 May 2023.

More information on the transition to ECHA CHEM.

Access ECHA CHEM

Search for other data on chemicals

Below you can find all publicly available data on chemicals held by ECHA, other than REACH registration dossiers.

Search our data

✓ I have read and I accept the legal notice.

Search for chemicals / regulated substances

e.g. Formaldehyde, or 200-001-8 or 50-00-0, or 605-001-00-5

Search for chemicals

Search for articles (products) in SCIP database

Search SCIP database

Substance Infocard

See a problem or have feedback?

Aldrin

IC

Regulatory process names 5 Translated names 21 IUPAC names 3 Other identifiers 9

Substance identity

EC / List no.: 206-215-8

CAS no.: 309-00-2

Mol. formula: C12H8Cl6



Hazard classification & labelling

of causing cancer.



Danger! According to the harmonised classification and labelling (CLP00) approved by the European Union, this substance is toxic if swallowed, is toxic in contact with skin, causes damage to organs through prolonged or repeated exposure, is very toxic to aquatic life, is very toxic to aquatic life with long lasting effects and is suspected

Properties of concern



Suspected to be Carcinogenic



Persistent Organic Pollutant

about INFOCARD - Last updated: 06/09/202

Key datasets

Brief Profile

REACH registered

C&L Inventory Biocidal active

PACT tool

Regulatory Obligations

Regulatory context

Here you can find all of the regulations and regulatory lists in which this substance appears, according to the data available to ECHA. This substance has been found in the following regulatory activities (directly, or inheriting the regulatory context of a parent substance):

ECHA Legislations

Please no

information

third partie

information

prior permi

owners. Ple

for further

Emission Limit Values (ELVs)

Other chemical legislations

∨ Expand all → Collapse all

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

Annex III: criteria for 1 - 10 tonne registered substances

Pre-registered substances

Substances predicted as likely to meet criteria for category 1A or 1B carcinogenicity, mutagenicity, or reproductive toxicity, or with dispersive or diffuse use(s) where predicted likely to meet any classification criterion for health or environmental hazards, or where there is a nanoform soluble in biological and environmental media.

Substances indicated, in 2009, as being intended to be registered by at least one company in the EEA.

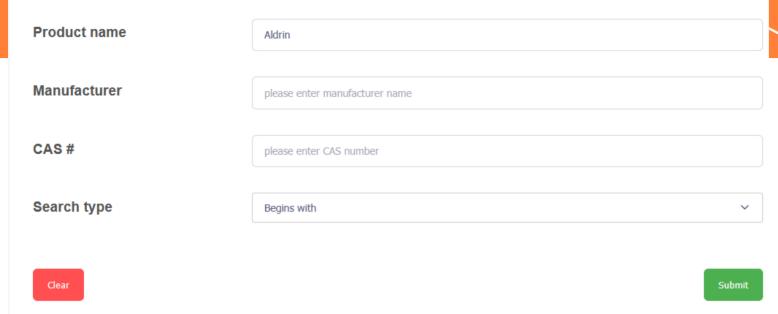
CLP - Classification, Labelling and Packaging

OBL,

About

MSDS

Safety Data Sheet Search



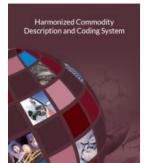
Powered by Chemical Safety Software

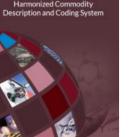
Search results:

Product Name	Manufacturer	CAS #	CS DISTRIBUT ION ID	Revisio n date	HTTP REF
Aldrin	Agilent	309- 00-2	33442028	4/25/20 19	https://www.agilent.com:443/cs/library/msds/ FRSP-180A_NAEnglish.pdf
Aldrin	AK Scientific, Inc.		33390103	2/24/20 19	https://aksci.com/sds/9273AF_SDS.pdf
Aldrin	Sigma Aldrich	309- 00-2	33526269	8/29/20 23	https://www.sigmaaldrich.com/us/en/sds/SIAL/08573
Aldrin	SPEX CertiPrep		2395546	1/30/20 19	http://www.spexcertiprep.com/MSDS/S-205.pdf
Aldrin	Ultra Scientific	309- 00-2	2406240	3/24/20 15	URL not provided

Harmonized System





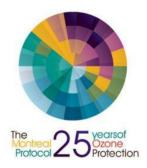




PROTECT SOCIETY AND ENVIRONMENT

Facilitate the Monitoring and Control of International Trade of Substances, such as CWC chemicals





OZONE DEPLETING SUBSTANCES (ODS)





CHEMICALS FOR IMPROVISED **EXPLOSIVE DEVICES (IEDs)** WCO GLOBAL SHIELD PROGRAM



PERSISTENT ORGANIC POLLUTANTS (POPs)



DANGEROUS PESTICIDES

Customs control



Stockholm Convention (POPs) Convention (PIC)

Rotterdam

Montreal Protocol

Basel Convention

Minamata Convention

Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)

Fake Product? **Intellectual Property Rights**

National regulations

Regional Agreements

Tax regulations

> Australia Group

Wassenaar Dual-use goods

Missile Technology **Control Regime**

Convention on Narcotic drugs

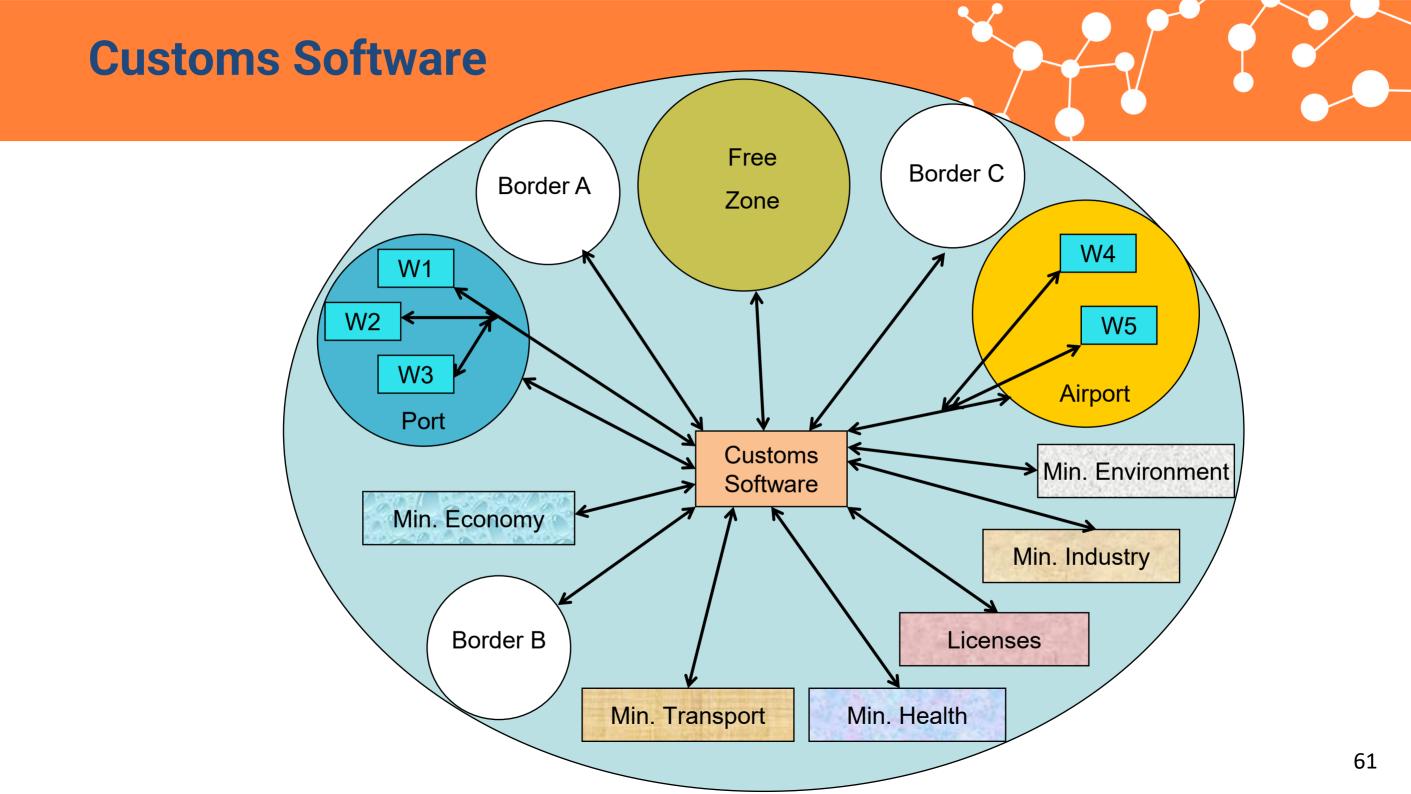
Convention on **Psychotropics**

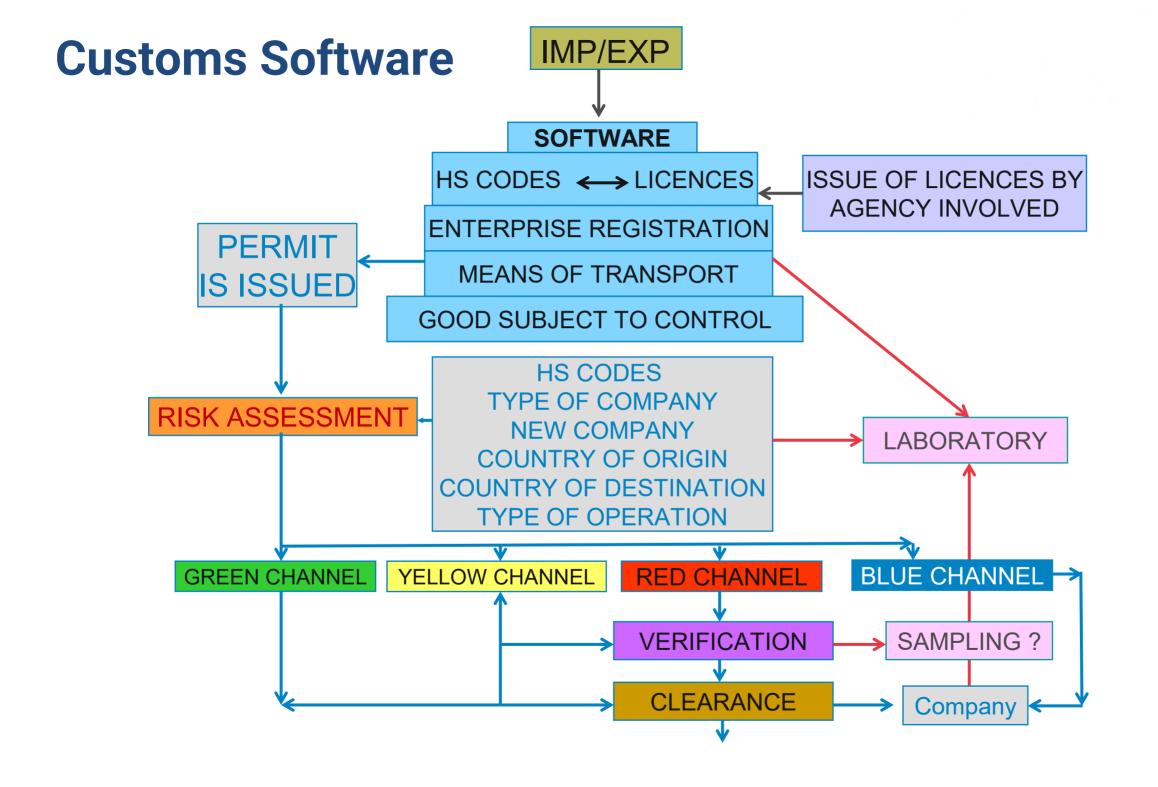
CWC

BWC

Program Global Shield (IED)

> Nuclear Supplier Group





Aldrin was produced in large quantities for use as a pesticide applied to soils to kill termites, grasshoppers, corn rootworm, and other insect pests, aldrin can also kill birds, fish, and humans. Its production and use have been widely controlled because it persists in the environment, bioaccumulates in the food chain and in humans and is highly toxic to microorganisms, fish, crustaceans and many bird and animal species. Its production and use are being eliminated internationally under the Stockholm Convention.

Chlordane was used extensively to control termites and as a broad-spectrum insecticide on a range of agricultural crops. It remains in the soil for a long time and has a reported half-life of one year. The lethal effects of chlordane on fish and birds vary according to the species, but tests have shown that it can kill mallard ducks, bobwhite quail, and pink shrimp. Chlordane may affect the human immune system and is classified as a possible human carcinogen.

Chlordecone has been used in various parts of the world for the control of a wide range of pests. It has been used extensively in the tropics for the control of banana root borer. It has been used as a fly larvicide, as a fungicide against apple scab and powdery mildew, to control the Colorado potato beetle, the rust mite on non-bearing citrus, and the potato and tobacco wireworm on gladioli and other plants. Chlordecone has also been used in household products such as ant and roach traps.

Chlordecone is listed in Annex A to the Stockholm Convention without specific exemptions (decision SC-4/12).

Chlorpyrifos, which belongs to the group of organophosphate pesticides, is widely applied as an insecticide in agriculture for pest control on various crops as well as lawns and ornamental plants. Pesticide products containing chlorpyrifos are registered for use on many agricultural crops, including corn, soybeans, alfalfa, oranges, apples, bananas, wheat, and walnuts. Additionally, chlorpyrifos products are registered for use on non-food sites such as ornamental plants in nurseries, golf course turf, as a wood treatment, and as an ear tag for cattle. There are also public health uses including aerial and ground-based mosquito adulticide fogger treatments, use as fire ant control and for some tick species that may transmit diseases such as Lyme disease. At its peak, in 2008 chlorpyrifos products were authorized for use in more than 88 countries. While its production and use declined in some regions such as Europe and North America following regulatory measures such as bans or restrictions, chlorpyrifos still has a wide application range in many countries worldwide, including for termite control in buildings.

Dechlorane Plus technical mixture is a polychlorinated flame retardant that has been in use since the 1960s. It is used as an additive flame retardant in electrical wire and cable coatings, plastic roofing materials, connectors in TV and computer monitors, and as a non-plasticizing flame retardant in polymeric systems, such as nylon and polypropylene plastic.

Dechlorane Plus was originally used in the manufacture of: Aerospace (such as aircraft engine fan case rub strip products and void-filling and edge-sealing products, aircraft engine manufacturing repairs, electrical items, structural panels and aircraft cabin interiors); Defence (such as naval vessels, missiles, launch platforms, ordnance, communication equipment, radar and lidar systems and support equipment); Motor vehicles (covering all land-based vehicles, such as cars, motorcycles, agricultural and construction vehicles and industrial trucks; applications include cables, wire harnesses, connectors and insulation tapes); Medical devices (such as ultrasound diagnostic devices, magnetic resonance imaging systems, X-ray imaging systems, flexible endoscopes and radiotherapy devices and installations); In-vitro diagnostic devices (such as immunoassay analysers, haematology analysers, polymerase chain reaction (PCR) testing systems, genetic analysers, clinical chemistry analysers, blood coagulation analysers and urinalysis analysers). See UNEP/POPS/POPRC.16/INF/19

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Dicofol is an organochlorine miticidal pesticide that has been used in agriculture to control mites on a variety of field crops, fruits, vegetables, ornamentals, cotton, tea.

Dieldrin was used principally to control termites and textile pests. Dieldrin has also been used to control insect-borne diseases and insects living in agricultural soils. Its half-life in soil is approximately five years. The pesticide aldrin rapidly converts to dieldrin, so concentrations of dieldrin in the environment are higher than dieldrin use alone would indicate. Dieldrin is highly toxic to fish and other aquatic animals, particularly frogs, whose embryos can develop spinal deformities after exposure to low levels.

Endosulfan is used on a very wide range of crops, including soy, cotton, rice, and tea. Other crops include vegetables, fruits, nuts, berries, grapes, cereals, pulses, corn, oilseeds, potatoes, coffee, mushrooms, olives, hops, sorghum, tobacco, and cacao. It is used on ornamentals and forest trees and has been used in the past as an industrial and domestic wood preservative, and for controlling earthworms in turf. Endosulfan is listed in Annex A to the Stockholm Convention with specific exemptions for production and use on crop-pest complexes listed in part VI of that annex (decision SC-5/3).

Endrin is sprayed on the leaves of crops such as cotton and grains. It is also used to control rodents such as mice and voles. Animals can metabolize endrin, so it does not accumulate in their fatty tissue to the extent that structurally similar chemicals do. It has a long half-life, however, persisting in the soil for up to 12 years. In addition, endrin is highly toxic to fish.

Heptachlor was used to kill soil insects and termites and has also been used more widely to kill cotton insects, grasshoppers, other crop pests, and malaria-carrying mosquitoes. It is believed to be responsible for the decline of several wild bird population. Laboratory tests have also shown high doses of heptachlor to be fatal to mink, rats, and rabbits. Heptachlor is classified as a possible human carcinogen. Food is the major source of exposure for humans, and residues have been detected in the blood of cattle from the US and from Australia.

Hexabromobiphenyl was used as a fire retardant in three main commercial products: acrylonitrilebutadiene-styrene (ABS) thermoplastics for constructing business machine housings and in industrial (e.g. motor housing), and electrical (e.g. radio and TV parts) products; as a fire retardant in coatings and lacquers; and in polyurethane foam for auto upholstery.

It is listed in Annex A to the Stockholm Convention without specific exemptions (decision SC-4/13).

Hexabromocyclododecane HBCDD is used as a flame retardant additive, during the service life of vehicles, buildings or articles. The main uses of HBCDD are in flame-retarded expanded (EPS) and extruded (XPS) polystyrene foam for insulation and construction, with other uses in textile applications and electric and electronic appliances (high impact polystyrene/HIPS). In textiles, HBCDD is used in backcoatings for upholstery and other interior textiles, including automotive applications. HBCDD is listed in Annex A to the Stockholm Convention with specific exemptions for production and use in EPS and XPS in buildings (decision SC-6/13).

Polybromodiphenyl ethers including tetra-, penta-, hexa-, and heptaBDEs inhibit or suppress combustion in organic materials and therefore, are used as additive flame retardants. The production of tetra - and pentaBDEs has ceased in certain regions of the world, while no production of hexa- and heptaBDEs is reported.

Commercial pentabromodiphenyl ether (c-pentaBDE) is a mixture of brominated flame retardants (BFRs), mainly isomers of pentabromodiphenyl ether and tetrabromodiphenyl ether. Brominated flame retardants are a group of brominated organic substances that inhibit or suppress combustion in organic material. C-pentaBDE is or has been used almost exclusively in the manufacture of flexible polyurethane (PUR) foam for furniture and upholstery in homes and vehicles, packaging, and non-foamed PUR in casings and electronic equipment (EE). They are also used to some extent in specialized applications in textiles and in industry. Pentabromodiphenyl ether and tetrabromodiphenyl ether are listed in Annex A to the Stockholm Convention with specific exemptions for recycling of articles that contain or may contain those substances. This specific exemption will expire at the latest in 2030 (decision SC-4/18).

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Commercial octabromodiphenyl ether c-octaBDE has been used as an additive flame retardant in the plastics industry. Globally 70% of c-octaBDE has been used in acrylonitrilebutadiene styrene (ABS). Other minor uses include high impact polystyrene (HIPS), polybutylene terephthalate (PBT) and polyamide polymers. c-octaBDE is listed in Annex A with specific exemptions for recycling of articles that contain or may contain those substances. This specific exemption will expire at the latest in 2030 (decision SC-4/14).

Decabromodiphenyl ether (DecaBDE) has been mainly used as an additive flame retardant combining with the material where it is used to inhibit the ignition and slow the rate where flames spread. It has a wide range of applications including in plastics, polymers, composites, textiles, adhesives, sealants, coatings and inks. DecaBDE containing plastics are used in housings of computers and TVs, wires and cables, pipes and carpets. Moreover, it is also used in commercial textiles, mainly for public buildings and transport, and in textiles for domestic furniture.

Hexachlorobenzene (HCB) was first introduced in 1945 to treat seeds, HCB kills fungi that affect food crops. It was widely used to control wheat bunt. It is also a byproduct of the manufacture of certain industrial chemicals and exists as an impurity in several pesticide formulations.

Hexachlorobutadiene (HCBD) is unintentionally formed and released from the production of certain chlorinated hydrocarbons, magnesium, polyvinyl chloride, ethylene dichloride and vinyl chloride monomer and incineration of acetylene, chlorine residues caused by poor abatement control. Previously, it was intentionally produced or used in the production of lubricants, as a solvent, a heat transfer liquid and hydraulic liquid, yet HCBD is not known to be currently intentionally produced or used. HCBD is listed in Annex A (elimination) without specific exemptions (decision SC-7/12) and in Annex C (Unintentional production) to the Stockholm Convention (decision SC-8/12). Parties must take measures to eliminate the production and use of HCBD and also take measures to reduce the unintentional releases of HCBD.

Lindane is listed in Annex A to the Stockholm Convention with specific exemptions for the use of lindane as a human health pharmaceutical for the control of head lice and scabies as second line treatment (decision SC-4/15). Alpha- and beta-HCH are listed in Annex A to the Stockholm Convention without specific exemptions (decisions SC-4/10, SC-4/11). It has been used as a broad-spectrum insecticide for seed and soil treatment, foliar applications, tree and wood treatment and against ectoparasites in both veterinary and human applications. The production of lindane has decreased rapidly in the last few years and only few countries are still known to produce lindane. Use of alpha- and beta-HCH as insecticides was phased out years ago, but these chemicals have been produced as byproducts of lindane.

Long-chain perfluorocarboxylic acids PFCAs, their salts and related compounds are used, or may have been used, in a range of applications, including in: industrial applications (e.g., as surfactants, and in the production of fluoropolymers); electronics; medical devices; printing inks and photographic materials; automotive care products; building and construction materials; cookware and food-contact materials; fire-fighting foams; ski waxes; and various consumers products (such as household products, personal care products, home textiles and apparel). In addition, long-chain PFCAs and their related compounds may be unintentionally produced during the manufacturing of per- and polyfluoroalkyl substances (PFASs).

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Mirex is used mainly to combat fire ants, and it has been used against other types of ants and termites. It has also been used as a fire retardant in plastics, rubber, and electrical goods.

Pentachlorobenzene was used in PCB products, in dyestuff carriers, as a fungicide, a flame retardant and as a chemical intermediate e.g. previously for the production of quintozene. PeCB might still be used as an intermediate. PeCB is also produced unintentionally during combustion, thermal and industrial processes. It also present as impurities in products such as solvents or pesticides. PeCB is listed in Annex A (elimination) without specific exemptions and in Annex C (Unintentional production) to the Stockholm Convention (decision SC-4/16).

Pentachlorophenol and its salts and esters has been used as herbicide, insecticide, fungicide, algaecide, disinfectant and as an ingredient in antifouling paint. Some applications were in agricultural seeds, leather, wood preservation, cooling tower water, rope and paper mill system. Chlorinated contaminants including hexachlorobenzene, pentachlorobenzene, and dioxins and furans are produced during the manufacturing process. In addition, dioxins and furans formed during the manufacturing process can be released during the use and disposal of PCP-treated wood. Its use has been significantly declined due to the high toxicity of PCP and its slow biodegradation. Pentachlorophenol and its salts and esters are listed in Annex A to the Stockholm Convention with specific exemptions for production and use of pentachlorophenol for utility poles and cross-arms (decision SC-7/13).

Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds have unique properties with a high resistance to friction, heat, chemical agents, low surface energy and used as water, grease, oil and soil repellent. It is widely utilized in a variety of consumer goods such as carpets, leather, apparel, textiles, firefighting foam, papermaking, printing inks, sealants, non-stick cookware. PFHxS, its salts and PFHxS related compounds are listed in Annex A to the Stockholm Convention without any specific exemptions (decision SC-10/13).

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Polychlorinated biphenyls (PCB) possess properties including longevity, heat absorbance and form an oily liquid at room temperature that is useful for electrical utilities and in other industrial applications. Due to their physico-chemical properties, PCB were manufactured worldwide for use in a wide range of applications, most importantly as insulating were and heat exchange fluids in transformers and capacitors and other electric equipment, and in open applications such as additives in paint, carbonless copy paper, and plastics. PCB are toxic and can cause serious health effects in humans and animals, including reproductive impairment and immune system dysfunctions. PCB are listed in Annex A and C to the Stockholm Convention.

Polychlorinated naphthalenes have been used in many applications including: use as wood preservative, as additive to paints and engine oils, and for cable insulation and in capacitors. PCNs are unintentionally generated during high-temperature industrial processes in the presence of chlorine. Of the known releases, combustion (primarily waste incineration) is considered the most significant current source. PCNs are also unintentionally generated with similar mechanisms as polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF) during other industrial processes such as smelting in the secondary non-ferrous metal industry, cement and magnesia production, aluminium refining and coking. PCN is listed in Annex A (elimination) with specific exemptions for production of those chemicals as intermediates in production of polyfluorinated naphthalenes, including octafluoronaphthalene, and the use of those chemicals for the production of polyfluorinated naphthalenes, including octafluoronaphthalene; and in Annex C (Unintentional production) to the Stockholm Convention (decision SC-7/14).

Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds are used widely in the production of fluoroelastomers and fluoropolymers, for the production of non–stick kitchen ware, food processing equipment. PFOA-related compounds, including side-chain fluorinated polymers, are used as surfactants and surface treatment agents in textiles, paper and paints, firefighting foams. PFOA has been detected in industrial waste, stain resistant carpets, carpet cleaning liquids, house dust, microwave popcorn bags, water, food, and Teflon. Unintentional formation of PFOA is created from inadequate incineration of fluoropolymers from municipal solid waste incineration with inappropriate incineration or open burning facilities at moderate temperatures.

Short-chain chlorinated paraffins have been used as softeners in plastics, paints, coatings and sealants, as flame retardants in rubber, plastics and textiles as well as an extreme pressure lubricant in metal working fluids.

Methoxychlor is an organochlorine pesticide originally developed as a replacement for DDT. Methoxychlor has been used as an insecticide combating a wide range of pests including biting flies, houseflies, mosquito larvae, cockroaches, and chiggers. It has commonly been used in both agricultural and veterinary practices, for example for treating field crops, vegetables, fruits, stored grains, livestock, pets, homes, gardens, lakes, and marshes.

Toxaphene is used on cotton, cereal grains, fruits, nuts, and vegetables. It has also been used to control ticks and mites in livestock. Toxaphene was the most widely used pesticide in the US in 1975. Up to 50% of a toxaphene release can persist in the soil for up to 12 years. For humans, the most likely source of toxaphene exposure is food. While the toxicity to humans of direct exposure is not high, toxaphene has been listed as a possible human carcinogen due to its effects on laboratory animals. It is highly toxic to fish.

UV-328 is a phenolic benzotriazole that is used as a UV absorber to protect surfaces against discoloration and degradation under UV/sunlight. UV-328 has wide range of applications, but its main uses are in paints and coatings, and as an additive in a wide variety of plastics, including in the non-food contact layer of food packaging. In the automobile sector, UV-328 is used in paints, coatings and sealants, as well as in liquid crystal panels and meters mounted on vehicles, and resin for interior and exterior parts of vehicles. In food packaging, it is used as an additive in plastics, printing ink and adhesives.

DDT has been used since 1940 as an insecticide to control insect vectors for diseases such as malaria. Its use has been restricted since the 1970's because it persists in the environment, is toxic to a number of organisms including fish and biomagnifies in the food chain causing significant reproductive effects in birds. Health concerns arose due to bioaccumulation in humans and its potential to cause tumors. Its production is restricted for use in disease vector control programs under the Stockholm Convention.

Perfluorooctane sulfonic acid (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOSF) has been used for a variety of products due to its surface-active properties, surface resistance/repellency to oil, water, grease or soil. PFOS is both intentionally produced and formed by degradation from a large group of related substances, referred to as PFOS-related substances. Intentional uses of PFOS can be found in electric and electronic parts, fire fighting foam, photo imaging, hydraulic fluids, leather, paper and textiles.

Chemicals controlled under the Stockholm/Rotterdam Conventions and their uses - Annex C

Polychlorinated dibenzo-p-dioxins (PCDD) are produced unintentionally due to incomplete combustion, as well during the manufacture of pesticides and other chlorinated substances. They are emitted mostly from the burning of hospital waste, municipal waste, and hazardous waste, and also from automobile emissions, peat, coal, and wood. There are 75 different dioxins, of which seven are considered to be of concern. Dioxins have been associated with a number of adverse effects in humans, including immune and enzyme disorders and chloracne, and they are classified as possible human carcinogens.

Polychlorinated dibenzofurans (PCDF) are produced unintentionally from many of the same processes that produce dioxins, and also during the production of PCBs. They have been detected in emissions from waste incinerators and automobiles. Furans are structurally similar to dioxins and share many of their toxic effects. There are 135 different types, and their toxicity varies. Furans persist in the environment for long periods and are classified as possible human carcinogens. Food, particularly animal products, is the major source of exposure for humans. Furans have also been detected in breast-fed infants.

Summary of products that may contain controlled substances



- Meat and fish (due to contamination) Ch 2 & Ch 3
- Vegetables/crops treated with pesticides S II
- Wood treated with pesticides Ch 44
- Products that may contain flame retardants:
 - Textiles S XI
 - Lether S VIII
 - Paper S X
 - Carpets Ch 57
 - Plastics Ch 39
 - ✓ ABS 3903.30
 - ✓ PS expanded or foams HIPS 3903.11/19
 - ✓ PU (foams) 3909.50
 - ✓ Polyamides 39.08
 - ✓ PVC 3904.10/21/22
 - ✓ Fluoropolymers (Teflon-like products) 3904.6
- Fire-fighting foams 38.13
- Adhesives, sealants, coatings Ch 32/38.09
- **Paints** 32.08/32.09/32.10
- Construction materials 39.22/39.25/39.26/Ch 68

- Lubricants 27.10
- Oils 2710.20
- Heat exchange or hydraulic fluids 38.19/38.20
- Surfactants Ch 34
- Surface-repellent products 38.09
- Transformers 85.04
- Capacitors 85.32
- Insulated cables 85.44
- Electric and electronic appliances (computer and TV housings) Ch 84 & 85
- Automotive parts (plastic parts, seats made with PU, etc.) Ch 39/87.08
- Upholstery in homes Ch 57
- Human health products (control of head lice, malaria) (DDT and Lindane) 3004.60
- Consumer products
- Food packaging (due to additive in plastics) 39.23
- End-of-life vehicles 72.04
- Certain wastes (e-wastes, waste oils, municipal wastes, clinical wastes, etc.) 2710.91/38.25/39.15/85.49

More limitations to HS codes



HS codes have certain limitations

- They are useful for monitoring trade in chemical substances and preparations
- Certain products are classified based on their function and not on their composition
- Plastics are classified according to the monomer content and not to additive content
- Foams are classified based on the polymer not on the additives
- Electric and electronic products are classified according to their function
- There are a few specific HS codes for wastes containing PCBs, PCTs or PBBs

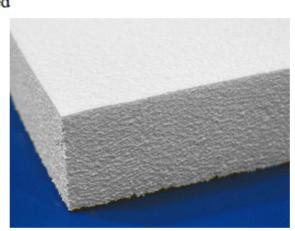
The additive content of a product is more a production problem than a trade problem.

Products should not be produced with certain controlled substances in the first place.

Other relevant HS codes



	- Waste oils :		
2710.91	Containing polychlorinated biphenyls (PCBs), polychlorinated terphenyls (PCTs) or polybrominated biphenyls (PBBs)		
2710.99	Other		
39.03		Polymers of styrene, in primary forms.	
		- Polystyrene :	
	3903.11	Expansible	
	3903.19	Other	
	3903.20	- Styrene-acrylonitrile (SAN) copolymers	
	3903.30	- Acrylonitrile-butadiene-styrene (ABS) copolymers	
	3903.90	- Other	
'	l	I	
	3909.50	- Polyurethanes	
38.13	3813.00	Preparations and charges for fire-extinguishers; charged fire-extinguishing grenades.	









Wastes that may contain PCB, PCT or PBB

Wastes, substances or articles containing, consisting of or contaminated with PCB, PCT, PBB or PCN at a concentration level of 50 mg/kg or more

Physical chemical properties: Liquid oil. Viscous.

Basel Convention entry: A3180

HS Code Heading 38.25

	,, 0		
Transformers		ı	
Capacitators	38.25		Residual products of the chemical or allied industries, not
– Plasticizers			elsewhere specified or included; municipal waste; sewage sludge; other wastes specified in Note 6 to this Chapter.
– PVC coatings		3825.10	- Municipal waste
– Pesticide extenders		3825.20	- Sewage sludge
Cutting oil		3825.30	- Clinical waste
– Flame retardants			- Waste organic solvents :
– Lubricating oil		2025.44	
– Hydraulic oil		3825.41	Halogenated
Sealants		3825.49	Other
– Adhesives		3825.50	- Wastes of metal pickling liquors, hydraulic fluids, brake fluids and
– Wood floor finishes			anti-freeze fluids
– Paints			- Other wastes from chemical or allied industries :
Contaminated soil		3825.61	Mainly containing organic constituents
		3825.69	Other
Colour: Mainly black/dark br	rown.	3825.90	- Other

77

Wastes that may contain PCB, PCT or PBB

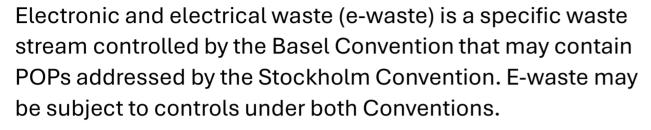
- 4.- Throughout the Nomenclature, "municipal waste" means waste of a kind collected from households, hotels, restaurants, hospitals, shops, offices, etc., road and pavement sweepings, as well as construction and demolition waste. Municipal waste generally contains a large variety of materials such as plastics, rubber, wood, paper, textiles, glass, metals, food materials, broken furniture and other damaged or discarded articles. The term "municipal waste", however, does not cover:
 - (a) Individual materials or articles segregated from the waste, for example wastes of plastics, rubber, wood, paper, textiles, glass or metals, electrical and electronic waste and scrap (including spent batteries) which fall in their appropriate headings of the Nomenclature;
 - (b) Industrial waste;
 - (c) Waste pharmaceuticals, as defined in Note 4 (k) to Chapter 30; or
 - (d) Clinical waste, as defined in Note 6 (a) below.
- 5.- For the purposes of heading 38.25, "sewage sludge" means sludge arising from urban effluent treatment plant and includes pre-treatment waste, scourings and unstabilised sludge. Stabilised sludge when suitable for use as fertiliser is excluded (Chapter 31).
- 6.- For the purposes of heading 38.25, the expression "other wastes" applies to :
 - (a) Clinical waste, that is, contaminated waste arising from medical research, diagnosis, treatment or other medical, surgical, dental or veterinary procedures, which often contain pathogens and pharmaceutical substances and require special disposal procedures (for example, soiled dressings, used gloves and used syringes);
 - (b) Waste organic solvents;

Wastes are well defined in the Nomenclature in accordance with several Legal Notes

- (c) Wastes of metal pickling liquors, hydraulic fluids, brake fluids and anti-freezing fluids; and
- (d) Other wastes from chemical or allied industries.

The expression "other wastes" does not, however, cover wastes which contain mainly petroleum oils or oils obtained from bituminous minerals (heading 27.10).

Example of joint issues: POPs in e-waste



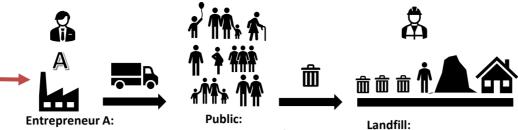
Three groups of POPs are of concern in relation to electronic electrical equipment

- Brominated flame-retardants
- Perfluorooctane sulfonic acid (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOSF)
- Polychlorinated biphenyls (PCBs)

Transboundary movements not following the appropriate notification and consent procedures or resulting in deliberate dumping of wastes constitute illegal traffic, which is to be considered criminal under national legislation. Trade occurring in contravention of the obligations of the Rotterdam and Stockholm Conventions may also be considered illegal.

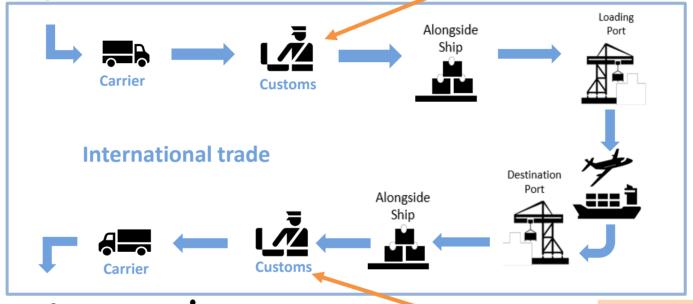
	1
85.49	Electrical and electronic waste and scrap.
	- Of a kind used principally for the recovery of precious metal:
8549.21	 Containing primary cells, primary batteries, electric accumulators, mercury-switches, glass from cathode-ray tubes or other activated glass, or electrical or electronic components containing cadmium, mercury, lead or polychlorinated biphenyls (PCBs)
8549.29	Other
	-Other electrical and electronic assemblies and printed circuit boards:
8549.31	 Containing primary cells, primary batteries, electric accumulators, mercury-switches, glass from cathode-ray tubes or other activated glass, or electrical or electronic components containing cadmium, mercury, lead or polychlorinated biphenyls (PCBs)
8549.39	Other
	- Other :
8549.91	 Containing primary cells, primary batteries, electric accumulators, mercury-switches, glass from cathode-ray tubes or other activated glass, or electrical or electronic components containing cadmium, mercury, lead or polychlorinated biphenyls (PCBs)
8549.99	Other

Article 3: Production and use Elimination Annex A Restriction Annex B Several months



- Processing of raw material
- Sale of processed commodity to the public or selling commodities abroad
- End-use of the processed commodity
- Disposal after use

 Accumulation of disposed commodities Article 3: Import and export Elimination Annex A Restriction Annex B Hours/days



Article 3: Production and use
Elimination Annex A
Restriction Annex B
Several months

Entrepreneur B:

- Processing of raw material
- Sale of processed commodity to the public or buying commodities abroad

Public:

- End-use of the processed commodity
- Disposal after use

Landfill:

 Accumulation of disposed commodities Article 3: Import and export Elimination Annex A Restriction Annex B Hours/days

Customs procedures Common issues for Customs



- Once the customs documents have been analyzed, you may want to confirm that a presumed illegal movement involves chemicals or wastes through physical inspection
- Within ports, dedicated inspection and storage facilities are usually at hand.
- When the inspection is done alongside a road or at a terrestrial border, please consider where it is safe – for you, others and the environment to open and store the container.

Health and Safety precautions

Before opening a container, you should be aware of the possible risks involved

Try to identify the substance only with the information a label

THINGS YOU SHOULD NOT DO

✓ DO NOT take any action unless you have been trained in handling toxic chemicals

- ✓ DO NOT enter confined spaces
- ✓ DO NOT open trailers or trucks
- ✓ DO NOT open drums or other containers
- ✓ DO NOT presume what is declared/on labels is what is inside
- ✓ DO NOT destroy evidence and secure the scene



Identification of the chemicals



For the initial assessment before taking the decision to go for physical inspection look at the customs declaration where you can find HS codes, trade names, CAS numbers, you can ask for Safety Data sheet. You already know that POPs can be present in pesticides, industrial chemicals or they can be included in certain products.

Examples of POPs in products

Commercial octabromodiphenyl ether:	Used mainly as flame retardants principally in the plastics industry for flame-retarded polymer products, typically the housings of office and other equipment containing electronics.
Commercial pentabromodiphenyl ether:	Used almost exclusively in the manufacture of flexible polyurethane (PUR) foam for furniture and upholstery in homes and vehicles, packaging, and non-foamed PUR in casings and electronic equipment (EE).
Perfluorooctane sulfonic acid and its salts (PFOS) and perfluorooctane sulfonyl fluoride (PFOS-F):	Uses: Photo-imaging Photo-resist and anti-reflective coatings for semi-conductors Etching agent for compound semiconductors and ceramic filters Aviation hydraulic fluids Metal plating (hard metal plating) only in closed-loop systems Certain medical devices Fire-fighting foam Insect baits for control of leaf-cutting ants Photo masks in the semiconductor and liquid crystal display (LCD) industries Metal plating (hard metal plating) Metal plating (decorative plating) Electric and electronic parts for some colour printers and colour copy machines Insecticides for control of red imported fire ants and termites Chemically driven oil production Carpets Leather and apparel Textiles and upholstery Paper and packaging Coatings and coating additives Rubber and plastics

Identification of the chemicals

- Once the information concerning a shipment has been gathered, concrete safety measures may be taken during the physical inspection.
- Information on physical hazards and toxicity from chemicals can be seen on placards or labels on the packaging
- Placards or labels on the packaging can provide information about the hazardousness of the content to decide whether to open the container for visual screening or to take samples

GHS Pictograms	Physical hazards	GHS Pictograms	Health and Environmental hazards
\wedge	Explosive;	\	Skin corrosion;
	Self-reactive;	不多	Serious eye damage
	Organic peroxide		
^	Flammable;	^	Acute toxicity (harmful);
(%)	Pyrophoric;	(!)	Skin sensitizer;
	Self-reactive;		Irritant (skin and eye);
	Organic peroxide;		Narcotic effect;
	Self-heating;		Respiratory tract irritant;
	Emits flammable gases when in contact with water		Hazardous to ozone layer (environment)
	Oxidizer		Respiratory sensitizer;
<♡>			Mutagen;
			Carcinogen;
			Reproductive toxicity;
			Target organ toxicity;
			Aspiration hazard
	Gas under pressure	*	Hazardous to aquatic environment
	Corrosive to metals		Acute toxicity (fatal or toxic)

Analysis of the chemicals



To confirm the composition of the substance, it may be necessary to take samples for analysis

You may need to call a specialist to take samples

Ensure representative samples are taken

A sampling plan should be prepared



- For Electrical and electronic goods, a functionality test may be necessary to determine whether the equipment is a second-hand good or a waste.
- The analysis of the sample will usually be performed by an accredited laboratory
- UNEP databank of laboratories analyzing POPs (not updated)
- Guidance on sampling, screening and analysis of POPs in Products and Articles

Illegal trade



- The study of the trade documents and the physical inspection will lead to two conclusions:
 - ✓ The physical movement is legal
 - √ The physical movement is illegal*
- * Because the Stockholm and Rotterdam Convention do not explicitly define illegal trade, domestic laws, including those implementing the Convention, define the legality of the production and trade in listed chemicals.
- The actions Customs can take if the trade is illegal will depend on the applicable laws and regulations in the Country
- Customs may not have the authority to take administrative, civil or criminal investigation measures
- Cargo should be detained and stored in safe and protected areas
- Gather of evidence
- Assigning responsibilities for the illegal traffic
- Disposal of wastes in an environmentally sound manner
- Guidance on the prosecution of illegal traffic of wastes has been developed:
 https://www.basel.int/TheConvention/Publications/GuidanceManuals/tabid/2364/Default.aspx

Smuggling Schemes



- Not possible to inspect all cargo
- Avoid disrupting legal trade

When targeting illegal movements of hazardous chemicals and wastes, police and other law enforcement officers need to be aware of the techniques used to conceal these illegal shipments

In general, illegal movements are disguised or hidden or not declared.

E.g.: Wastes declared as second-hand goods
Hazardous wastes declared as non-hazardous

Smuggling Schemes – Examples of misdeclarations





E-waste and waste refrigerators containing CFC declared as second-hand goods



Mixed household residues declared as paper or plastic waste





Expired chemical and pigments declared as products

Common concealment methods



Common concealment methods are:

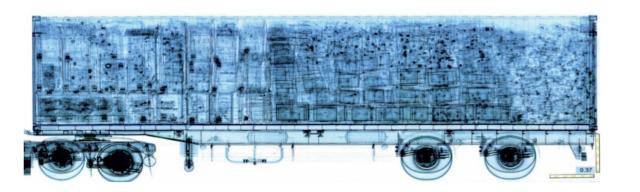
Using a cover load: placing the illegal goods behind rows of legal goods or under layers of

legal goods

Placing false labels on the chemicals or removing old labels

Hiding e-waste in blinded and sealed vehicles or trucks

Mixing hazardous waste with non-hazardous waste or material







Smuggling Schemes Illegal imports of pesticides



- Import under wrong Harmonized System Code or Group (e.g. veterinary drugs instead of insecticide)
- Documents forgery or document tempering (e.g. change of the documents on board; presentation of fake Certificates in transit entry points; Material Safety Data Sheet doesn't comply with dossier)
- Standard smuggling methods (e.g. disguise; splitting container into small batches; change of weight)
- Mislabeled chemicals banned under the Stockholm Convention and for which specific exemptions or acceptable purposes are not registered
- Chemicals listed under the Rotterdam Convention in Annex III which were banned in the importing countries according to Import Response in the PIC Circular.
- Mislabeling (no labels; small labels; wrong labels; labels with incomplete information)

Risk assessment and Analysis



Customs controls are based on targeting high-risk cargo through a risk assessment of the current situation. This assessment may provide, for instance, evaluation of the existence of illegal trade/traffic, and impact of illegal trade/traffic on human health, the environment and the economy.

Risk Identification

- What kind of illegal activity is taking place?
- Where are illegal activities taking place or most likely to take place within the country or on which route?
- Why do individuals or legal entities engage in illegal trade/traffic?
- When does illegal trade/traffic take place?

The WCO can help countries to implement risk assessments

Profiling and indicators



Risk indicators are developed following completion of the risk identification and analysis phases of the risk assessment. Risk indicators flag potential problems with a particular shipment.

Profiles can be built into their Customs electronic systems.

Some examples of risk indicators

- Declaring certain identified HS codes not triggering PIC procedures
- Broken, defective or non-existent seals
- Packaging not corresponding to the goods/wastes description
- Dented, damaged or mishandled containers or recently painted drums
- Placards or labels on the container or on the packaging (drums, boxes, etc.) indicating hazardous materials;
- Shippers-owned container (not owned by a shipping line leasing company, without a prefix or with a prefix not related to a shipping line and container number);
- Expressions like: 'expired', 'discarded', 'do not return' or 'for disposal';
- Leaking containers or packaging.

Example of High-Risk HS Codes

For the risk analysis, it is advisable to consider to pose highest risk the subheadings not subject to the PIC procedure or wastes declared for recycling, as importers may try to hide hazardous wastes in the not hazardous subheadings and avoid presenting the PIC documents

Subheadings covered by the PIC procedure Y48 and A3210

Subheadings not covered by the PIC procedure B3011

HS codes	Declared	In fact can be	
113 codes	as	iii lact call be	
3915	Plastic	Waste plastics mixed with other wastes, medical waste	
3913	scrap	or used chemical bottles, municipal solid waste	
7204	Metal	Batteries, metal scrap contaminated with hazardous	
7204	scrap	waste, electronic wastes	
8528	CRT	Waste CRT monitors	
0528	monitors		

Heading 39.15

Delete and substitute:

"39.15 Waste, parings and scrap, of plastics.

3915.40

- Goods specified in Subheading Note 2 to this Chapter
- Other, consisting of one non-halogenated polymer only, almost free from contamination and other types of waste :

	contamination and other types of waste .
3915.51	 Of polymers of ethylene
3915.52	 Of polymers of propylene
3915.53	 Of polymers of styrene
3915.54	 Acrylonitrile-butadiene-styrene (ABS) copolymers
3915.55	 Poly(ethylene terephthalate)
3915.56	 Polycarbonates
3915.57	 Polyethers
3915.58	 Urea-formaldehyde resins; phenol-formaldehyde resins; melamine-formaldehyde resins; epoxide resins; alkyd resins

- Other, containing halogenated polymers, including mixtures consisting of halogenated polymers and non- halogenated polymers :
- 3915.61 Consisting only of polymers of vinyl chloride
- -- Manufacturing waste, consisting of only one of the following fluorinated polymers, almost free from contamination and other types of waste: perfluoroethylene-propylene copolymer; tetrafluoroethylene-(perfluoroalkyl vinyl ether) copolymer; tetrafluoroethylene-(perfluoromethyl vinyl ether) copolymer; poly(vinyl fluoride); poly(vinylidene fluoride)
- 3915.69 -- Other
 - Other:
- Mixtures consisting only of two or more of the following polymers, almost free from contamination and other types of waste : polyethylene; polypropylene; poly(ethylene terephthalate)
- 3915.99 -- Other".

Real case scenario - Hazardous chemicals

In 2001, the Dutch Environmental Authorities were informed by the Customs about two leaking containers in the port of Rotterdam. The investigation revealed that a US company was ordered by the US Environmental Protection Agency to clean up chemicals it had been storing illegally for years. Part of the chemicals were loaded onto 29 sea containers with more than 300 tons of expired chemicals declared as waste and were to be shipped via Rotterdam to Nigeria.

The Dutch authorities discovered that the buyer in Nigeria did not exist and assumed that the chemicals were meant for illegal dumping.

Investigation required close coordination among the American, Dutch and Nigerian agencies, including joint Environmental Protection Agency-Dutch sampling of the chemicals in Rotterdam.

After having been stored in the port terminal in Rotterdam during the investigations for about three years, the wastes were finally incinerated in the Netherlands. A US federal judge sentenced the defendants to pay more than \$2 million in restitution and fines, with most of the funds being allocated to the Dutch authorities to cover the costs of storage and incineration of the hazardous wastes.



More risk indicators



- Inadequate, incomplete or inconsistent description of the good/waste being shipped
- Missing documents, such as a movement document
- Cash payment, freight paid in advance
- False certificates
- Returned merchandise
- Falsely declaring the use of goods as being granted exemption for analytical or laboratory use
- Activity not corresponding to that usually carried out by the company
- Operator not known or unlicensed for hazardous waste management
- The name of the consignee company is not indicated, with only the freight forwarder's contact details being given
- Address of the consignee is a Post Office Box
- Address of the waste disposer is a building in a major city
- History of illegal activities
- Import, transit or export country in conflict or facing internal instability
- Import country lacking the capacity to manage hazardous wastes in an environmentally sound manner
- Non-party to one or more of the BRS conventions

Visual indication of risks



- If the seals are broken, the contents are suspect.
- Hazardous materials must be packaged in appropriate containers.

For example, if the manifest states that the material is corrosive, the container should be made of plastic.

If the material is a solvent, the container should be made of metal. Review the shipping documents to be sure the container is appropriate.

Recently painted drums could be suspicious.

Look on the sides of the containers to determine whether paint covers one or more labels or other markings on the containers. If so, the shipment is suspicious.

- Raw materials are rarely packaged in reconditioned containers.
- Placards indicating hazardous materials
- Leaking containers
- Label 'not be returned'
- Mixture of new with old drums

National Cooperation



 Preventing and combating illegal trade in hazardous chemicals and wastes requires in many cases the cooperation of several enforcement agencies at the national and international levels.

At National level

- Environmental agencies
- ✓ Public health
- ✓ Agricultural
- ✓ Trade
- ✓ Safety
- ✓ Police/Enforcement
- ✓ Justice
- Clarification of who is involved and their responsibilities

Key Stakeholders



Ministries that are involved in matters related to the implementation of the conventions usually have competences in the field of **environment**, **trade**, **agriculture**, **health and foreign affairs**.

Authorities involved in the enforcement of the national legal framework pertaining to the three conventions, such as

- Customs,
- Police
- Justice

Close coordination and cooperation among governmental entities entrusted with responsibilities for the implementation and enforcement of the conventions is therefore highly recommended.

Besides governmental entities, a variety of stakeholders at the national level are involved in the implementation of the conventions, such as:

- Private sector,
- Civil society organizations (NGOs), and
- Academia.

Key Stakeholders



A wide range of stakeholders, both at national and international levels, are involved in the continued implementation and enforcement of the three conventions.

At the national level, each Party is to designate entities to undertake specific tasks:

- One or more Competent Authorities under the Basel Convention
- ✓ **Focal Points** are responsible for sharing information through the Basel Convention Secretariat;
- ✓ **Competent Authorities** are governmental authorities responsible for receiving the notification of a transboundary movement of hazardous wastes or other wastes and for responding to such a notification.

The list of Focal Points and Competent Authorities is available: https://www.basel.int/Countries/CountryContacts/tabid/1342/Default.aspx

- At least one Designated National Authority and at least one Official Contact Point under the Rotterdam Convention
- ✓ The Focal Point for the Rotterdam Convention in a country is the Designated National Authority

The list of Designated National Authorities is available: https://www.pic.int/Countries/CountryContacts/tabid/3282/language/en-US/Default.aspx

- The Stockholm Convention requires that its Parties designate two kinds of entities that will have a role at the international level:
- ✓ Official Contact Points: For official communications with Parties and observers of the Conference of the Parties of the Stockholm Convention
- ✓ National Focal Points: Each Party shall designate a national focal point for the exchange of information specified in Article 9.

The list of Official Contact Points and National Focal Point is available at the Stockholm Convention website: https://chm.pops.int/Countries/Contact%20Points/tabid/304/Default.aspx

Support to Customs

- Customs officers need the technical know-how in relation to chemicals and wastes
- Customs officers need to know who to contact in case of doubts or findings
- An up-to-date contact list of relevant authorities should be available
- Parties should establish a clear procedure on what to do and who is responsible
- Relevant authorities can support Customs with:
- ✓ Training and capacity building
- ✓ Technical and legal information
- ✓ Information about licenses and consents
- ✓ Identification and classification issues
- ✓ Sampling and testing
- Contacting authorities in other countries
- ✓ Historical data from previous inspection or
- ✓ Enforcement actions
- ✓ Establishing risk profiles



Customs can support National Authorities

Customs officers have access to relevant data concerning import, export and transit of goods.

Customs' mandate and legal powers may extend to the following kind of information and activities:

- Pre-arrival and pre-departure information
- Historical shipping data
- Alert system through profiles in the Customs systems
- Power to detain, open, break seals and inspect containers
- Access to off-loading facilities and equipment and storage areas
- X-ray scanner
- Access to ships, trains or trucks
- Provide statistical information on imports and exports
- Access to the Customs Enforcement Network of the WCO

How to organize inter-agency cooperation?

There are various ways of setting up inter-agency collaboration:

- on an informal basis or
- on a formal basis.

Examples of formal cooperation are:

- the signing of an agreement between relevant agencies (e.g. a Memorandum of Understanding);
- the establishment of communication channels between relevant authorities; and
- the adoption of joint-guidelines and procedures for action clarifying competencies of each agency.

International Cooperation



Due to the international nature of transboundary movements of hazardous chemicals and wastes, collaboration at the international level is necessary.

The exchange of information between Competent Authorities (Basel), Designated National Authorities (Rotterdam) and National Focal Points (Stockholm) and their Regional Centres is crucial to ensure that Parties are equipped with the necessary information to allow them to take informed decisions on the transboundary movement and subsequent management of hazardous chemicals and wastes.

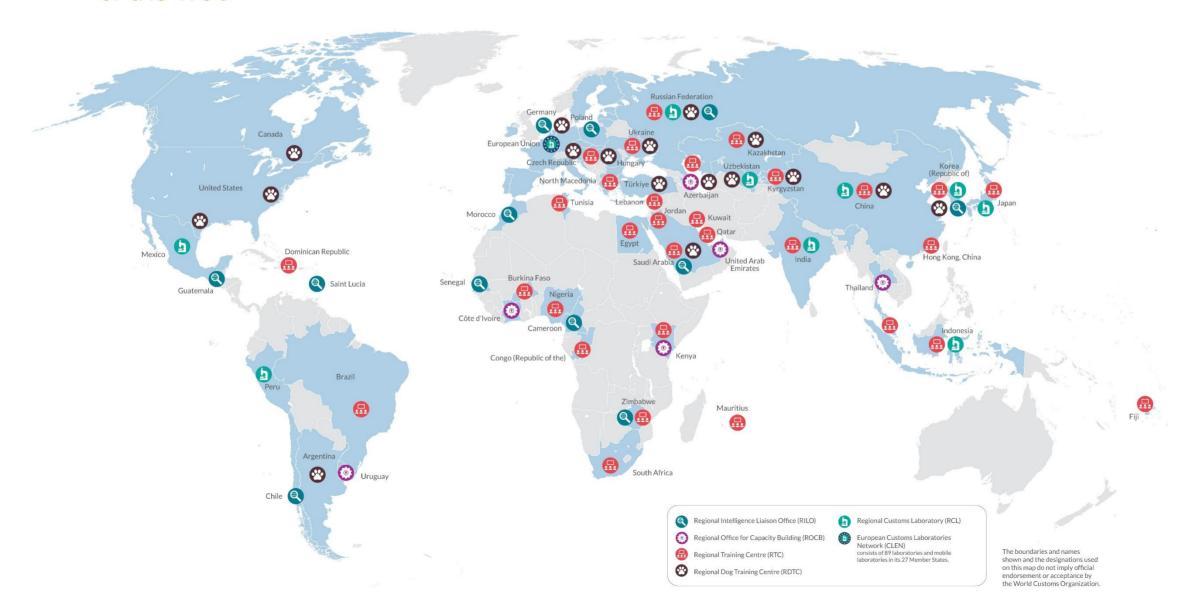
Some important International Organizations and Networks are:

- ✓ Interpol
- ✓ United Nations Office on Drugs and Crime (UNODC)
- ✓ Green Customs Initiative
- ✓ Regional Networks such as INECE, IMPEL, etc. are Enforcement networks aimed to contribute to more effective compliance and enforcement of environmental laws.
- ✓ World Customs Organization (WCO)

Regional Entities of the WCO



The Regional entities of the WCO



Operation Demeter X



Operation DEMETER dates back to 2009 to enforce the provisions of the Basel Convention, and, since 2019, to implement the provisions of the Montreal Protocol Some seizures also include hazardous chemicals

The tenth iteration of WCO Operation DEMETER, targeted illicit wastes, ozone depleting substances (ODS) and potent greenhouse gases, took place over eight weeks in the second semester of 2024. It saw the participation of a record 110 Customs administrations and led to 450 seizures reported by 47 Customs administrations.

These seizures included 324 seizures of waste, 99 seizures of ODS, HFCs and equipment containing controlled substances under the Montreal Protocol, and 27 seizures of other commodities, including restricted or prohibited commodities such as hazardous chemicals.

E-waste, plastic waste, metal waste, and end-of-life vehicles were the most traded categories of illegal waste in terms of the number of seizures. In terms of quantity in kg, plastic waste was the first category, constituting 24.71% of the overall quantity seized.



Thank you for your attention

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