



Countering Illicit Trafficking of CBRN Materials: Interagency Awareness Building Manila, Philippines, 20-21 November 2013

Chemical Weapons Convention: Information Sources & Tools

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Sources & Tools by OPCW



Most Traded Scheduled Chemicals

- 35 most traded scheduled chemicals
- Sorted by CAS Number or by Schedule
- Provides info on main commercial uses
- Available as a printed brochure and as PDF on the OPCW website

Chemical name: Triethanolamine

CAS RN: 102-71-6

Schedule: 3B17

HS Code: 2922.13

Molecular formula: C₆H₁₅NO₃

CAS Index Name: Ethanol, 2,2',2''-nitrilotris-

Synonyms: 2,2',2''-Nitrilotriethanol (IUPAC name)

Tris(amine)

Tris(beta-hydroxyethyl)amine

Triethanolamin

TEOA

TEA (amino alcohol)

TEA

Sting-Kill

Sterolamide

2,2',2''-Nitrilotris[ethanol]

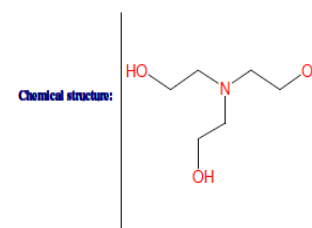
Nitrilotriethanol

tris-(2-Hydroxyethyl)amine

Daltogen

Alkanolamine 244

Tris(2-hydroxyethyl)amine



Commercial applications/Industrial uses

Production of: emulsifiers, detergents, textile and leather chemicals, drilling and cutting oils (impregnating materials), medicinal soaps and high-quality cosmetics and toiletries, agricultural products, pharmaceuticals. Production of cleaners: all-purpose cleaners, cleaners that involve skin contact because of the mildness of this chemical, waterless hand cleaners. Production of wax formulations: cream waxes and polishes used for furniture, floors and automotive car wax. Production of cement and concrete: milling additive. Production of adhesives. Application in coatings technology: metal coating preparations, glass coating (shatter proofing, anti-frosting, anti-fogging and dirt resistant films on glass and plastics), accelerator for photo-polymerisation coating (improves thermal properties and reduces cracking in prepared wire coatings). Application as corrosion inhibitor, used in gas purification processes, metal working, mining, petroleum and coal, polymers, textiles, pigment dispersion, pesticides and herbicides.

Page 5



Handbook on Chemicals

- Facilitates the identification of scheduled chemicals
- Contains:
 - Chemical names as used by IUPAC and CAS and other synonyms, trade names and military designations and HS Codes
 - UN Number for selected chemicals
 - CAS number or OPCW key
 - Chemical structures and molecular formulas
- Available in electronic version (Microsoft Access) and as PDF



Handbook on Chemicals (cont.)

2009 Version:

>1300 Scheduled chemicals

- 921 Schedule 1 chemicals
 - 379 Schedule 2 chemicals
 - 17 Schedule 3 chemicals
 - 12 riot control agents
-
- Based on information from declarations
 - All chemicals included have been declared
 - NOT a list of all declarable chemicals



Online Scheduled Chemicals Database

- Available on the OPCW website since 29 May 2009
- Aimed at facilitating the identification of scheduled chemicals by National Authorities, Customs Authorities and the Chemical Industry
- Contains same information of the Handbook on Chemicals plus all scheduled chemicals that had been assigned Chemical Abstracts Service (CAS) Registry Numbers as at 13 January 2009
- Although the database contains information on over 29,000 scheduled chemicals, it does not contain all possible scheduled chemicals



Accessible to registered users & the registration is free

The screenshot shows the OPCW Scheduled Chemicals Database login interface. At the top, there is a blue header with the OPCW logo and name on the left, and a photograph of a building on the right. Below the header, a breadcrumb trail reads "» OPCW Home » Scheduled Chemicals Database" and a "Login" link is on the right. The main heading "Scheduled Chemicals Database" is in orange. The login section is enclosed in a dashed orange box and contains labels for "Email:" and "Password:" next to input fields, and a "Login" button. Below the login box, the links "New user?" and "Forgot your password?" are displayed, with "New user?" circled in red. To the right of the login box, there is a circular logo for "CAS REGISTRY NUMBERS" and the European Union flag. At the bottom right, there are links for "Search chemicals" and "Send a comment". The footer contains a "Disclaimer | OPCW" link and a partially visible "www.o" on the left.

» OPCW Home » Scheduled Chemicals Database Login



Scheduled Chemicals Database

Login

Email:

Password:

[New user?](#) | [Forgot your password?](#)

[Search chemicals](#)
[Send a comment](#)

[Disclaimer](#) | OPCW

www.o



Only returns up to 20 chemicals per search

The screenshot shows the OPCW Scheduled Chemicals Database search page. At the top, there is a blue header with the OPCW logo and name. Below the header, a navigation bar shows the path: » OPCW Home » Scheduled Chemicals Database » Search. On the right, there is a user profile section for daniel.cardozo@opcw.org with links for 'My profile' and 'Logout'. The main content area is titled 'Scheduled Chemicals Database' and contains a search box with the text 'thiodi' and a 'Search' button. Below the search box is a link for 'How to search'. A message states: 'This search returns too many chemicals (30). Please, refine your search criteria.' To the right of the search box is a circular logo for 'CAS REGISTRY NUMBERS' and 'CAS RNs PROVIDED BY CAS'. Below this is the European Union flag and a link for 'Search chemicals'. At the bottom right, there is a link for 'Send a comment'. The footer contains a 'Disclaimer' link and the text 'OPCW'.

ORGANISATION FOR THE
PROHIBITION OF CHEMICAL WEAPONS

» OPCW Home » Scheduled Chemicals Database » Search

daniel.cardozo@opcw.org
[My profile](#) | [Logout](#)

Scheduled Chemicals Database

[How to search](#)

This search returns too many chemicals (30). Please, refine your search criteria.





[Search chemicals](#)

[Send a comment](#)

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Scheduled Chemicals Database

[How to search](#)



[111-48-8](#)

Bis(2-hydroxyethyl)sulfide



[Search chemicals](#)

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[» OPCW Home](#) [» Scheduled Chemicals Database](#) [» Search](#)

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Scheduled Chemicals Database

OPCW Key

111-48-8

Schedule

2B13

CAS Registry Number

111-48-8

[HS Code](#)

2930.90



Molecular Formula

C₄H₁₀O₂S

[Search chemicals](#)

Chemical Name

Bis(2-hydroxyethyl)sulfide

[Send a comment](#)

IUPAC Name

2,2'-Thiodiethanol



OPCW Central Analytical Database (OCAD)

- Source of identification information for Customs Laboratories
- Contains MS, NMR, IR, GC retention indices information on over 4800 CWC related chemicals
- Can be obtained through National Authority or directly from the Technical Secretariat



Our work

- Demilitarisation
- Non-proliferation
- Assistance and Protection
- International Cooperation
- Universality
- [National implementation](#)
 - Implementing Legislation
 - [Declarations adviser](#)
 - [Declarations Handbook](#)
 - [Handbook on Chemicals](#)
 - [Most traded Scheduled Chemicals](#)
 - [EDNA](#)
 - [Scheduled Chemicals Database](#)
 - [Declarations Requirements for Scheduled Chemicals](#)
 - [Determining Declarable Activities](#)
 - [Notification Handbook](#)
 - [Harmonized System](#)
 - [Related news](#)
 - [Related events](#)
 - [Related documents](#)

Declarations adviser

[Declarations Handbook](#)



The Declarations Handbook was developed to provide clear and simple guidance for the preparation of declarations to be made by States Parties in accordance with the requirements of the Convention. The Declarations Handbook incorporates the declaration requirements of the Convention and all relevant decisions and understandings in relation to such requirements agreed upon by the OPCW policy-making organs since entry into force of the Convention. This publication updates the previous version of the Declarations Handbook, issued in November 2002.

[Handbook on Chemicals](#)



The Handbook on Chemicals was developed to facilitate the efforts of National Authorities, Customs Authorities and industry to identify individual chemicals, covered by the schedules in the Annex on Chemicals of the CWC. The Handbook on Chemicals has undergone a major revision since the previous version. The 2009 version incorporates information on all 1329 scheduled chemicals and riot control agents declared to the Technical Secretariat from 1997 until February 2009.

[Most traded Scheduled Chemicals](#)



A list of scheduled chemicals of particular interest because of their trade. Information on commercial applications and industrial uses was gathered from a variety of open sources but of course it does not cover all possible applications.

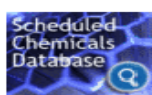
[EDNA](#)



States Parties.

The Electronic Declarations software for National Authorities (EDNA) has been developed in-house by the Technical Secretariat and is freely available for use by all States Parties for the creation of declarations required under Article VI. The Technical Secretariat will ensure that EDNA is kept current and updated to reflect applicable guidelines and any decisions made on the implementation of Article VI declaration requirements. To facilitate the use of EDNA, the Technical Secretariat will provide support and training to

[Scheduled Chemicals Database](#)



The Scheduled Chemicals Database is a tool developed by the Technical Secretariat of the OPCW to facilitate the identification of scheduled chemicals by National Authorities, customs authorities, and the chemical industry for the purposes of implementing the declaration and transfer provisions of the Chemical Weapons Convention.

[Declarations Requirements for Scheduled Chemicals](#)

[Determining Declarable Activities](#)

<http://www.opcw.org/our-work/national-implementation/declarations-adviser/>

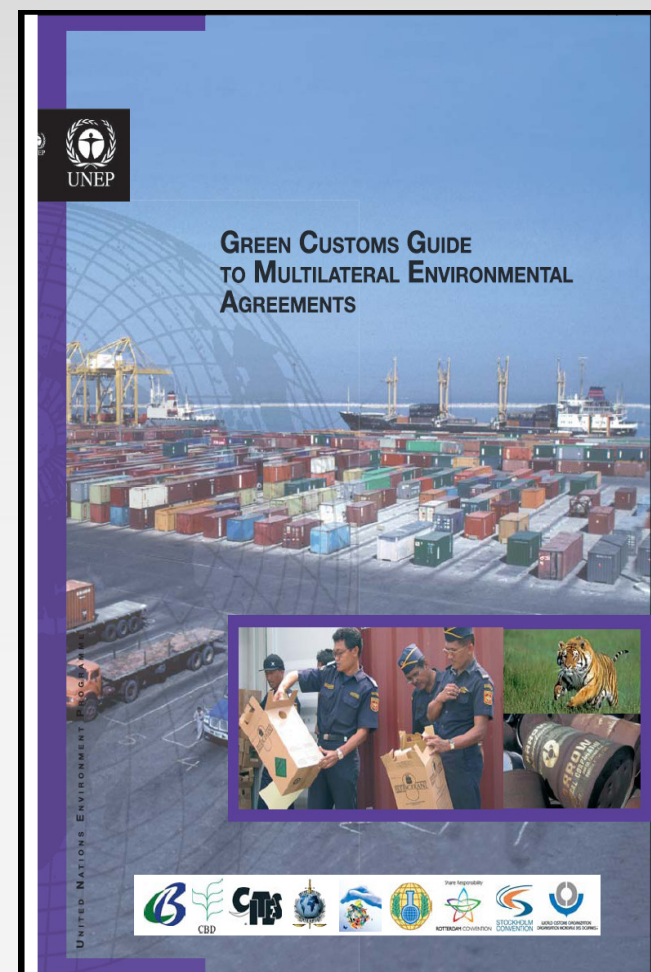


Other Information Sources



Green Customs Guide

- Guide for Customs on multilateral environmental agreements and related agreements
 - Rotterdam Convention
 - Stockholm Convention
 - Basel Conventions
 - Montreal Convention
 - Cartagena Convention
 - CITES
 - **CWC**
- Overview of treaties and common issues for Customs
 - <http://www.greencustoms.org>





Internet Sources

- Chemspider: <http://www.chemspider.com>
- ChemIDplus: <http://chem.sis.nlm.nih.gov/chemidplus/>
- European chemical Substances Information System (ESIS):
<http://esis.jrc.ec.europa.eu/>
- European Chemicals Agency (ECHA): <http://echa.europa.eu/>
- European Customs Inventory of Chemical Substances (ECICS):
http://ec.europa.eu/taxation_customs/common/databases/ecics/index_en.htm
- Transport Canada: <http://www.tc.gc.ca/eng/canutec/guide-menu-227.htm>



CWC e-learning module for Customs

- e-Learning module for customs is being developed by OPCW and WCO
- The project is funded through the Green Customs Initiative
- Another resource for customs in identifying and controlling CWC related chemicals
- The English and French versions are expected to be released by the end of 2013.





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Working together for a world free of chemical weapons



**Thank you for your attention.
Any questions?**