



## Milton® Sterilising Tablets

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name: Milton® Sterilising tablets  
 UFI : 13V0-V1GX-X00U-7H28

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Disinfectant

#### 1.3. Details of the supplier of the safety data sheet

Registered company name: Milton International  
 Address: 9 rue Marcel Sembat, 44100 Nantes - France  
 Phone: +33 (0)5 49 68 15 15  
 Fax.: +33 (0)5 49 66 16 41  
 E-mail: [fds@labo-rivadis.fr](mailto:fds@labo-rivadis.fr)  
<https://www.milton-tm.com/en>

Registered company name: Milton Pharmaceutical Company UK Ltd  
 Address: The Garden Suite, 23 Westfield Park, Redland, BS6 6LT, Bristol - England  
 Phone: +44 0800 097 5606  
 E-mail: [fds@labo-rivadis.fr](mailto:fds@labo-rivadis.fr)  
<https://www.milton-tm.com/en>

#### 1.4. Emergency telephone number

Country	Phone number	Website
Austria	112	-
Belgium	+ 32 070 245 245	<a href="http://www.centreantipoisons.be/">http://www.centreantipoisons.be/</a>
Bulgaria	+359 2 9154 409	<a href="http://www.pirogov.bg">http://www.pirogov.bg</a>
Croatia	(+385 1) 23-48-342	-
Cyprus	112	-
Czech Republic	+420 224 919 293, +420 224 915 402	<a href="http://www.tis-cz.cz">www.tis-cz.cz</a>
Denmark	+45 82 12 12 12	-
Estonia	16662 / (+372) 626 93 90	-
Finland	112	-
France	+33 (0)1 45 42 59 59	INRS / ORFILA <a href="http://www.centres-antipoison.net">http://www.centres-antipoison.net</a> .
Germany	112	-
Greece	112	-
Hungary	+36 1 476 6464 / +36 80 201 199	-
Iceland	112	-
Ireland	01 809 2166	-
Italy	112	-
Latvia	+371 67042473	-
Liechtenstein	112	-
Lithuania	+370 5 236 20 52 / +370 687 53378	<a href="http://www.tox.lt/">http://www.tox.lt/</a>
Luxembourgs	112	-
Malta	112	-
Netherlands	(+31) 030-2748888	-
Norway	(+42) 2259 1300	-
Poland	112	-
Portugal	0808 250 143	-
Romania	112	-
Slovakia	(+421) 2 54 774 166	-
Slovenia	112	-
Spain	+ 34 91 562 04 20	-
Sweden	112	-
Switzerland	145	-
United Kingdom	111	-

### SECTION 2 – HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Eye irritation	Eye Irrit. 2 - H319
Hazardous to the aquatic environment - Chronic hazard	Aquatic Chronic 2, H411

## 2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazards pictograms:



SGH07

SGH09

Signal word: WARNING

Hazard statements:

<b>H319</b>	Causes serious eye irritation.
<b>H411</b>	Toxic to aquatic life with long lasting effects.

Precautionary statements:

<b>P101</b>	If medical advice is needed, have product container or label at hand.
<b>P102</b>	Keep out of reach of children.
<b>P264</b>	Wash hands thoroughly after handling.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P273</b>	Avoid release to the environment.
<b>P280</b>	Wear eye protection.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P337+P313</b>	If eye irritation persists: Get medical advice/attention.
<b>P391</b>	Collect spillage.
<b>P402+P404</b>	Store in a dry place. Store in a closed container.
<b>P405</b>	Store locked up.
<b>P501</b>	Dispose of contents/ container in accordance with local regulations.

Additional labelling:

<b>EUH031</b>	Contact with acids liberates toxic gas.
<b>EUH206</b>	Warning! Do not use together with other products. May release dangerous gases (chlorine).

Contains

Troclosène sodium

## 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances  $\geq 0.1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable (mixture).

### 3.2. Mixtures

Composition:

INDEX	CAS No.	EC No.	Hazardous ingredient(s)	Pictograms	Classification	% w/w
607-144-00-9	124-04-9	204-673-3	Adipic acid	GHS 07	H319	25-40
613-030-01-7	2893-78-9	220-767-7	Troclosene sodium	GHS 03 GHS 07	EUH031 H272	15-25

			M factor (Acute)= 1 M factor (Chronic) = 1	GHS 09	H302 H319 H335 H400 H410	
011-005-00-2	497-19-8	207-838-8	Sodium carbonate	GHS 07	H319	5-10

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

## SECTION 4 – FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General information</b>	In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
<b>In the event of exposure by inhalation</b>	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
<b>In the event of splashes or contact with eyes</b>	Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.
<b>In the event of splashes or contact with skin</b>	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
<b>In the event of ingestion</b>	Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Irritation effects</b>	This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>If eye irritation persists</b>	Get medical advice/attention.
<b>Information to medics</b>	Bring this safety data sheet or the label from this product.

## SECTION 5 – FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

- Carbon oxides (CO / CO<sub>2</sub>)
- Some metal oxides

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

Hazchem Code: 2Z

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Avoid inhalation of dust and contact with skin and eyes. Wash thoroughly after dealing with a spillage.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

### 6.3. Methods and material for containment and cleaning up

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7 – HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

<b>Recommended storage material</b>	Keep only in original packaging.
<b>Storage temperature</b>	Ambient temperature and humidity, in original packaging securely closed
<b>Incompatible materials</b>	Will not polymerise. The following materials may react with the product: Acids. Alkalis. Organic nitro compounds. Amines. Oxidising agents. Reducing agents. Moisture. Peroxides. Contact with acids liberates toxic gas. Under normal conditions of storage and use, no hazardous reactions will occur.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

ADIPIIC ACID (CAS: 124-04-9)

<b>DNEL</b>	Long term – Systemic effects - General population – Dermal : 7.5 mg/kg bw/day Long term – Systemic effects - Workers – Dermal : 21 mg/kg bw/day Long term – Systemic effects - General population – Inhalation : 13 mg/m <sup>3</sup> Long term – Systemic effects - Workers – Inhalation : 74.1 mg/m <sup>3</sup> Long term – Systemic effects - General population – Oral : 7.5 mg/kg bw/day
<b>PNEC</b>	- Freshwater - Continuous : 126 µg/L - Freshwater sediment - Continuous : 474 µg/kg - Intermittent release (freshwater)- Continuous : 460 µg/L - Marine water - Continuous : 12.6 µg/L - Marine water sediment - Continuous : 47.4 µg/kg - Soil - Continuous : 20.8 µg/kg

SODIUM CARBONATE (CAS: 497-19-8)

<b>DNEL</b>	Long term – Systemic effects - General population – Inhalation : 5 mg/m <sup>3</sup> Long term – Systemic effects - Workers – Inhalation : 10 mg/m <sup>3</sup>
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TROCLOSENE SODIUM (CAS: 2893-78-9)




<b>DNEL</b>	Long term – Systemic effects - General population – Dermal : 1.15 mg/kg bw/day Long term – Systemic effects - Workers – Dermal : 2.3 mg/kg bw/day Long term – Systemic effects - General population – Inhalation : 1.99 mg/m <sup>3</sup> Long term – Systemic effects - Workers – Inhalation : 8.11 mg/m <sup>3</sup> Long term – Systemic effects - General population – Oral : 1.15 mg/kg bw/day
<b>PNEC</b>	- Freshwater - Continuous : 170 ng/L - Freshwater sediment - Continuous : 7.56 mg/kg - Intermittent release (freshwater)- Continuous : 1.7 µg/L - Marine water - Continuous : 1.52 mg/L - Sewage treatment plant - Continuous : 590 µg/L - Soil - Continuous : 756 µg/kg

## 8.2. Exposure controls

Control is unnecessary if the product is used as intended.

<b>General recommendations</b>	Smoking, drinking and consumption of food is not allowed in the work area.
<b>Exposure scenarios</b>	There are no exposure scenarios implemented for this product.
<b>Exposure limits</b>	Occupational exposure limits have not been defined for the substances in this product.
<b>Appropriate technical measures</b>	Apply standard precautions during use of the product. Avoid inhalation of gas or dust.
<b>Hygiene measures</b>	In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.
<b>Measures to avoid environmental exposure</b>	Keep damming materials near the workplace. If possible, collect spillage during work. Keep container tightly sealed when not in use.

## 8.3. Individual protection measures, such as personal protective equipment

<b>Generally</b>	Use only UKCA marked protective equipment.
<b>Respiratory Equipment</b>	No specific requirements
<b>Skin protection</b>	 <p>Standard fabric garments (e.g. cotton overcoat or apron). However, in a professional setting, an in-use risk assessment should determine what is suitable.</p>
<b>Hand protection</b>	 <p>Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.</p>
<b>Eye protection</b>	 <p>Chemical splash goggles or face shield, if an in-use risk assessment specifies it is necessary</p>

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

General information:

<b>Physical state</b>	Tablet
<b>Odor</b>	Characteristic. Chlorine.
<b>Color</b>	White.

Important health, safety and environmental information:

<b>pH</b>	pH (diluted solution): 4-6 @ 1%
<b>Density</b>	1.4 g/cm <sup>3</sup>
<b>Solubility in water</b>	Completely soluble

### 9.2. Other information

Not determined.

## SECTION 10 – STABILITY AND REACTIVITY

### 10.1. Reactivity

Contact with acids liberates toxic gas.

Warning! Do not use in combination with other products. May release dangerous gases (chlorine).

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas. The following materials may react with the product: Alkalis. Organic nitro compounds. Amines. Oxidising agents. Reducing agents. Moisture. Peroxides. Under normal conditions of storage and use, no hazardous reactions will occur.

**10.4. Conditions to avoid**

Avoid the following conditions: Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

**10.5. Incompatible materials**

Flammable/combustible materials. Moisture. Avoid contact with acids and alkalis. Avoid contact with strong oxidising agents. Avoid contact with strong reducing agents. Hydrocarbons. Inorganic nitrates. Inorganic nitrites. Organic compounds.

**10.6. Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

Heating may generate the following products: Carbon monoxide (CO). Oxides of nitrogen.

Hydrogen chloride (HCl). Isocyanates. Chlorine.

**SECTION 11 – TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**11.1.1. Substances

No data available

11.1.2. Mixture

<b>Serious damage to eyes/eye irritation</b>	Causes serious eye irritation.
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**11.2 Information on other hazards**

<b>Long term effects</b>	Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.
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**SECTION 12 – ECOLOGICAL INFORMATION****12.1. Toxicity**

TROCLOSENE SODIUM (CAS: 2893-78-9)

Acute toxicity - fish

LC<sub>50</sub>, 96 hours: 0.38 mg/l, Oncorhynchus mykiss

Acute toxicity - aquatic invertebrates

EC<sub>50</sub>, 48 hours: < 1 mg NaDCC mg/l, Daphnia magna

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

**12.6. Endocrine disrupting properties**

Not known.

**12.7. Other adverse effects**

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

**SECTION 13 – DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

<b>Waste treatment methods</b>	Product is covered by the regulations on hazardous waste. HP 4 - Irritant (skin irritation and eye damage) HP 12 – Release of an acute toxic gas HP 14 – Ecotoxic Dispose of contents/container to an approved waste disposal plant. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
<b>EWC code</b>	Disposal methods : Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. General Information : Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
<b>Specific labelling</b>	Not applicable.

<b>Contaminated packing</b>	Packaging containing residues of the product must be disposed of similarly to the product.
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## SECTION 14 – TRANSPORT INFORMATION

### Additional information

These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

Hazchem Code: 2Z

### 14.1 UN number

<b>UN No. (ADR)</b>	3077
<b>UN No. (IMDG)</b>	3077
<b>UN No. (IATA)</b>	3077

### 14.2. UN proper shipping name

<b>Proper shipping name (ADR)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium)
<b>Proper shipping name (IATA)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium)

### 14.3. Transport hazard class(es)

<b>Class</b>	9
<b>Classification code</b>	M7
<b>Label</b>	9

Transport labels



### 14.4. Packing group

<b>ADR packing group</b>	III
<b>IMDG packing group</b>	III
<b>IATA packing group</b>	III

### 14.5. Environmental hazards

- Environmentally hazardous substance/marine pollutant:



### 14.6. Special precautions for user

<b>EmS</b>	F-A, S-F
<b>Tunnel restriction code</b>	(-)

<b>Limited quantities</b>	5kg
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**14.7. Transport in bulk according according to IMO instruments**

No data available.

**SECTION 15 – REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>Restrictions for application</b>	Restricted to professional users.
<b>Demands for specific education</b>	No specific requirements.
<b>SEVESO - Categories / dangerous substances</b>	E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (uppertier): 500 tonnes
<b>Biocidal Products Regulations</b>	Product type: PT2 - Disinfectants and algacides not intended for direct application to humans or animals Product type: PT4 - Food and feed area
<b>Sources</b>	Control of Major Accident Hazards (COMAH) Regulations 2015. In accordance with Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products as retained and amended in UK law. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16 – OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Title for H and EUH indications mentioned in section 3:**

<b>EUH031</b>	Contact with acids liberates toxic gas.
<b>H272</b>	May intensify fire; oxidiser.
<b>H302</b>	Harmful if swallowed.
<b>H319</b>	Causes serious eye irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.

**Abbreviations**

<b>ADN</b>	European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
<b>ADR</b>	European agreement concerning the international carriage of dangerous goods by Road.
<b>ATE</b>	Acute Toxicity Estimate
<b>BCF</b>	Bioconcentration Factor



<b>CAS</b>	Chemical Abstracts Service
<b>CE</b>	Conformité Européenne
<b>CLP</b>	Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
<b>CSA</b>	Chemical Safety Assessment
<b>CSR</b>	Chemical Safety Report
<b>DMEL</b>	Derived Minimal Effect Level
<b>DNEL</b>	Derived No-Effect Level
<b>EINECS</b>	European Inventory of Existing Commercial chemical Substances
<b>ES</b>	Exposure Scenario
<b>EUH statement</b>	CLP-specific Hazard statement
<b>EWC</b>	European Waste Catalogue
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>IARC</b>	International Agency for Research on Cancer (IARC)
<b>IATA</b>	International Air Transport Association.
<b>IBC</b>	Intermediate Bulk Container
<b>IMDG</b>	International Maritime Dangerous Goods.
<b>LogPow</b>	logarithm of the octanol/water partition coefficient
<b>OECD</b>	Organisation for Economic Co-operation and Development
<b>PBT</b>	Persistent, bioaccumulable and toxic
<b>PNEC</b>	Predicted No-Effect Concentration
<b>RID</b>	Regulations concerning the International carriage of Dangerous goods by rail.
<b>RRN</b>	REACH Registration Number
<b>SCL</b>	A specific concentration limit
<b>SVHC</b>	Substances of very high concern.
<b>STOT- RE</b>	Specific Target Organ Toxicity - Repeated Exposure
<b>STOT- SE</b>	Specific Target Organ Toxicity - Single Exposure
<b>TWA</b>	Time Weighted Averages
<b>UN</b>	United Nations
<b>UVBC</b>	Unknown or variable composition, complex reaction products or of biological materials
<b>COV</b>	Volatile Organic Compound
<b>vPvB</b>	Very persistent, very bioaccumulable.