

Date of compilation: 11/25/2019 Revised: 4/13/2022 V

Version: 8 (Replaced 7)

# SECTION 1: IDENTIFICATION

# 1.1 GHS Product identifier:

Other means of identification: Code: 717.xxx.xxx, 720.xxx.xxx

EPA Registration No.: 71297-5-72992

#### **1.2** Recommended use of the chemical and restrictions on use:

Relevant uses: cut flower conditioner

Uses advised against: All uses not specified in this section or in section 7.3

**CVBN** 

#### 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Chrysal International BV Gooimeer 7 1411 DD Naarden - The Netherlands Phone: +31 (0)35 6955888 Info@chrysal.nl

**1.4 Emergency phone number:** ChemTel Inc. 1-800-255-3924 Int. +01-813-248-0585 +31 (0)35 6955827 or +31 (0)35 6955850 (during office hours: UTC+1)

## SECTION 2: HAZARD(S) IDENTIFICATION

# 2.1 Classification of the substance or mixture:

# 29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302 Eye Irrit. 2A: Eye irritation, Category 2A, H319 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

#### 2.2 Label elements:

#### 29 CFR 1910.1200:

Warning



## Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed. Eye Irrit. 2A: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation.

#### **Precautionary statements:**

P271: Use only outdoors or in a well-ventilated area.

P280: Wear {0}.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

## 2.3 Hazards not otherwise classified (HNOC):

Non-applicable

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Mixture of substances



Date of compilation: 11/25/2019

Revised: 4/13/2022 Version: 8 (Replaced 7)

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

## Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

	Identification	Chemical name/Classification	Concentration	
CAS:	51580-86-0	troclosene sodium, dihydrate		
		Acute Tox. 4: H302; Eye Irrit. 2A: H319; STOT SE 3: H335 - Warning	50 - <97 %	
To obtain more information on the borough of the substances consult continue 11, 10 and 10				

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

## SECTION 4: FIRST-AID MEASURES

#### 4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

# By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

## By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet

## By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

# By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

## 4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

# SECTION 5: FIRE-FIGHTING MEASURES

## 5.1 Suitable (and unsuitable) extinguishing media:

## Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

#### Unsuitable extinguishing media:

Non-applicable

## 5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) Additional provisions:



Date of compilation: 11/25/2019

Version: 8 (Replaced 7)

# SECTION 5: FIRE-FIGHTING MEASURES (continued)

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Revised: 4/13/2022

#### For non-emergency personnel:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

For emergency responders:

See section 8.

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

## 6.3 Methods and materials for containment and cleaning up:

It is recommended:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

## 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

## 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

#### A.- Technical measures for storage

Minimum Temp.:39.2 °FMaximum Temp.:86 °FMaximum time:36 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:



Date of compilation: 11/25/2019 Revised: 4/13/2022 Version: 8 (Replaced 7) SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued) Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3 8.2 Appropriate engineering controls: A.- Individual protection measures, such as personal protective equipment As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132. B.- Respiratory protection The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded. C.- Specific protection for the hands Non-applicable D.- Ocular and facial protection Non-applicable E.- Bodily protection Non-applicable F.- Additional emergency measures Emergency measure Standards Standards Emergency measure ത ANSI Z358-1 DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 ISO 3864-1:2011, ISO 3864-4:2011 Emergency shower Evewash stations The information in this section contains generic advice and guidance. Select proper emergency measures based on a risk assessment of the actual exposure situation. **Environmental exposure controls:** In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D National volatile organic compound emission standards (40 CFR Part 59): V.O.C. (Subpart C - Consumer): 0 % weight V.O.C. (Coatings) at 68 °F: 0 kg/m<sup>3</sup> (0 g/L) SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on basic physical and chemical properties: For complete information see the product datasheet. Appearance: Solid Physical state at 68 °F: Tablets Appearance: Color: According to the markings on the package Odor: Chlorine Odour threshold: Non-applicable \*

 Odour threshold:
 Non-applicable \*

 Volatility:
 Non-applicable \*

 Boiling point at atmospheric pressure:
 Non-applicable \*

 Vapour pressure at 68 °F:
 Non-applicable \*

 Vapour pressure at 122 °F:
 Non-applicable \*

 Evaporation rate at 68 °F:
 Non-applicable \*

 \*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -



Date of	compilation: 11/25/2019 Revised: 4/13/2022	Version: 8 (Replaced 7)
SEC	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	S (continued)
	Product description:	
	Density at 68 °F:	990 kg/m³
	Relative density at 68 °F:	Non-applicable *
	Dynamic viscosity at 68 °F:	Non-applicable *
	Kinematic viscosity at 68 °F:	Non-applicable *
	Kinematic viscosity at 104 °F:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	Non-applicable *
	Vapour density at 68 °F:	Non-applicable *
	Partition coefficient n-octanol/water 68 °F:	Non-applicable *
	Solubility in water at 68 °F:	Non-applicable *
	Solubility properties:	Soluble
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	482 °F
	Flammability:	
	Flash Point:	Non-applicable
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	Non-applicable *
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Explosive (Solid):	
	Lower explosive limit:	Non-applicable *
	Upper explosive limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable *
9.2	Other information:	
	Information with regard to physical hazard cla	sses:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
	Other safety characteristics:	
	Surface tension at 68 °F:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing info	ormation property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

# 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

# 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

## 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

- CONTINUED ON NEXT PAGE -



Date of compilation: 11/25/2019

Version: 8 (Replaced 7)

## SECTION 10: STABILITY AND REACTIVITY (continued)

#### **10.4** Conditions to avoid:

Applicable for handling and storage at room temperature:

Revised: 4/13/2022

S	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

#### 10.5 Incompatible materials:

Acids Water		Oxidising materials	Combustible materials	Others	
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases	

#### **10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

#### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.

- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.
  - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
  - IARC: Non-applicable

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

- CONTINUED ON NEXT PAGE -



Date of compilation: 11/25/2019

Version: 8 (Replaced 7)

# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Revised: 4/13/2022

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
   Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as
- dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

## Other information:

Non-applicable

#### Specific toxicology information on the substances:

Identification	Acut	Genus	
troclosene sodium, dihydrate	LD50 oral	1420 mg/kg	Rat
CAS: 51580-86-0	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L (4 h)	

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

# 12.1 Ecotoxicity (aquatic and terrestrial, where available):

#### Acute toxicity:

Identification		Concentration	Species	Genus
troclosene sodium, dihydrate	LC50	0.28 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 51580-86-0	EC50	0.19 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

# **Chronic toxicity:**

Identification		Concentration	Species	Genus
troclosene sodium, dihydrate	NOEC	1000 mg/L	Oncorhynchus mykiss	Fish
CAS: 51580-86-0	NOEC	160 mg/L	Daphnia magna	Crustacean

## 12.2 Persistence and degradability:

Not available

#### 12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:



Date of compilation: 11/25/2019 Revised: 4/13/2022

Version: 8 (Replaced 7)

# SECTION 12: ECOLOGICAL INFORMATION (continued)

#### Not available

#### 12.5 Results of PBT and vPvB assessment:

Non-applicable

## **12.6** Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

# 13.1 Disposal methods:

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

#### **Regulations related to waste management:**

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

# SECTION 14: TRANSPORT INFORMATION

#### **Other information:**

Dangerous good which may be carried as excepted quantity in accordance with the provisions stated in the respective regulations:

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

# Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

	14.1	UN number:
	14.2	UN proper sl
9		

 4.1 UN number:
 UN3077

 4.2 UN proper shipping name:
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**14.3 Transport hazard class(es):** 9 Labels: 9

(troclosene sodium, dihydrate) 5): 9

- **14.4 Packing group, if applicable:** III
- **14.5 Marine pollutant:** Yes
- 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises
  - Physico-Chemical properties: see section 9
  - Limited quantities: 5 kg

Under 49 CFR 171.4, Except when transporting aboard a vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars, and aircraft

14.7 Transport in bulk (according Non-applicable to Annex II of MARPOL 73/78 and the IBC Code):

#### Transport of dangerous goods by sea:

With regard to IMDG 39-18:



Date of compilation: 11/25/2019	Revised: 4/13/2022	Version: 8 (Replaced 7)
SECTION 14: TRANSPORT	INFORMATION (continued)	
	UN number: UN proper shipping name:	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate)
	Transport hazard class(es): Labels:	9 9
	Packing group, if applicable:	III
	Marine pollutant:	Yes
14.6		user needs to be aware of, or needs to comply with, in
	Special regulations:	conveyance either within or outside their premises 335, 966, 274, 967, 969
	EmS Codes:	535, 900, 274, 907, 909 F-A, S-F
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 kg
	Segregation group:	Non-applicable
14.7	Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	Non-applicable
Transport of dangero		
With regard to IATA/IC	AO 2021:	
14.1	UN number:	UN3077
14.2	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate)
14.3	Transport hazard class(es):	9
	Labels:	9
14.4	Packing group, if applicable:	III
	Marine pollutant:	Yes
14.6		user needs to be aware of, or needs to comply with, in conveyance either within or outside their premises
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	Non-applicable

## SECTION 15: REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations specific for the product in question:

Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): Non-applicable California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable The Toxic Substances Control Act (TSCA) : Non-applicable Massachusetts RTK - Substance List: troclosene sodium, dihydrate New Jersey Worker and Community Right-to-Know Act: Non-applicable New York RTK - Substance list: Non-applicable Pennsylvania Worker and Community Right-to-Know Law: troclosene sodium, dihydrate CANADA-Domestic Substances List (DSL): Non-applicable CANADA-Non-Domestic Substances List (NDSL): Non-applicable NTP (National Toxicology Program): Non-applicable Minnesota - Hazardous substances ERTK: Non-applicable Rhode Island - Hazardous substances RTK: Non-applicable OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable Hazardous Air Pollutants (Clean Air Act): Non-applicable Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Non-applicable Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

#### Other legislation:



Date of compilation: 11/25/2019

Version: 8 (Replaced 7)

# SECTION 15: REGULATORY INFORMATION (continued)

Take into consideration other applicable federal, state, and local laws and local regulations.

Revised: 4/13/2022

# SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

#### Texts of the legislative phrases mentioned in section 2:

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H302: Harmful if swallowed.

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### 29 CFR 1910.1200:

Acute Tox. 4: H302 - Harmful if swallowed. Eye Irrit. 2A: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation.

#### Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

#### Abbreviations and acronyms:

IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon IARC: International Agency for Research on Cancer

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