

**Safety data sheet**  
**complying with Regulation 1907/2006/EC (REACH**  
**Regulation), EU 2020/878 and Regulation No 1272/2008/EC**  
**(CLP)**

Printing date 03.02.2023

Version number 3 (replaces version 2)

Revision: 03.02.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name: **MEDASPIR**

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

No further relevant information available.

**Application of the substance / the mixture:** High efficiency disinfectant for suction systems.

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

MEDALKAN

Michalakopoulou 102, P.C. 11528, Athens, Greece

Tel.. 2107484847, Fax. 210 7772009

e-mail: [contact@medalkan.gr](mailto:contact@medalkan.gr)

website: [www.medalkan.com](http://www.medalkan.com)

**1.4 Emergency telephone number:**



European Emergency Tel.: 112

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation EC No 1272/2008 CLP:**



GHS05 corrosion

Skin Corr. 1C      H314 Causes severe skin burns and eye damage.

Eye Dam. 1      H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1      H400 Very toxic to aquatic life.

Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4      H332 Harmful if inhaled.

**2.2 Label elements**

**Labelling according to Regulation EC No 1272/2008 CLP:**

The product is classified and labelled according to the CLP regulation.

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**Hazard pictograms:**



GHS05 GHS07 GHS09

**Signal word:** Danger

**Hazard-determining components of labelling:**

dimethyldioctylammonium chloride  
 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

**Hazard statements:**

H332 Harmful if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P304+P340 IF INHALED: Remove person to fresh air and keep 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.  
 P310 Immediately call a POISON CENTER/doctor.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

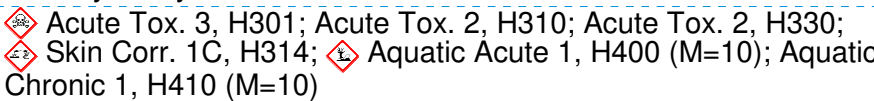
**PBT:** Not applicable.  
**vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Description:** Mixture: consisting of the following components.

**Ingredients according Regulation (EU) 2020/878:**

CAS: 5538-94-3 EINECS: 226-901-0	dimethyldioctylammonium chloride 	≥4-<8%
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CAS: 2372-82-9	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	(Contd. of page 2)
EINECS: 219-145-8	 Acute Tox. 3, H301;  STOT RE 2, H373;  Skin Corr. 1C, H314; Eye Dam. 1, H318;  Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1)	≥1-<2.5%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information:

Immediately remove any clothing soiled by the product.  
 Take affected persons out into the fresh air.

##### After inhalation:

If breathing is difficult, remove to fresh air. Restore breathing. Keep warm and quiet.  
 In case of unconsciousness place patient stably in side position for transportation.  
 Seek medical treatment in case of complaints.

##### After skin contact:

Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.  
 Remove contaminated clothing.  
 Wash contaminated clothing before use.

##### After eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.  
 Check for and remove any contact lenses.  
 Continue to rinse for at least 10 minutes.  
 Get medical attention if irritation occurs.  
 Avoid strong water jet-risk of cornea damage, consult a doctor.

##### After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.  
 Seek immediate medical advice.

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

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

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

No further relevant information available.

#### 5.3 Advice for firefighters

##### Protective equipment:

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

##### Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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## SECTION 6: Accidental release measures

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

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

Avoid contact with spilled material.

Goggles and/ or face shield, if contact with eyes or splashes are anticipated.

Avoid contact with skin and eyes.

#### 6.1.1 For non-emergency personnel

Avoid contact with dripping or leaking material

Use personal protective equipment.

#### 6.1.2 For emergency responders

First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

Dispose contaminated material as waste according to item 13.

Do not flush with water or aqueous cleansing agents

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Open and handle receptacle with care.

Avoid contact with skin, eyes and clothing.

Avoid inhaling vapors.

Do not eat, drink or smoke during the usage of the product.

Wash contaminated clothing before reuse.

Wash your hands thoroughly after handling.

#### Information about fire - and explosion protection:

Keep away from heat, sparks, open flames and hot surfaces.

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

**Storage:** Store in cool, dry conditions in well sealed receptacles.

#### Requirements to be met by storerooms and receptacles:

Store in a cool location.

Provide ventilation for receptacles.

**Information about storage in one common storage facility:** Store away from oxidising agents.

#### Further information about storage conditions:

Store under lock and key and out of the reach of children.

**7.3 Specific end use(s)** No further relevant information available.

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**CAS: 57-55-6 Propane-1,2-diol**

WEL (Great Britain)	Long-term value: 474* 10** mg/m <sup>3</sup> , 150* ppm *total vapour and particulates **particulates
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**8.2 Exposure controls**

**8.2.1. Appropriate engineering controls** Provide adequate ventilation.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures:**

Avoid contact with skin and eyes.

Remove contaminated clothes and wash before reusing them.

Do not breathe vapours or mists.

Do not eat, drink or smoke while using the product.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

**Respiratory protection:**



Use suitable respiratory protective device in case of insufficient ventilation.

**Hand protection**



Protective gloves resistant to chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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**Eye/face protection**



Tightly sealed goggles (EN 166).

**Body protection:**



Chemically resistant, protective work clothing (EN 14605) and boots.

**Environmental exposure controls**

Dispose of flushing liquids in accordance with local and national regulations.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

<b>Physical state</b>	Liquid
<b>Colour:</b>	Yellow
<b>Odour:</b>	typical lemon
<b>Odour threshold:</b>	Not determined
<b>Melting point/freezing point:</b>	Not determined
<b>Boiling point or initial boiling point and boiling range</b>	Not determined
<b>Flammability</b>	Not applicable
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined
<b>Flash point:</b>	Not Flammable
<b>Auto-ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>pH at 20 °C</b>	11-11.5
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined
<b>Dynamic:</b>	Not determined
<b>Solubility</b>	
<b>water:</b>	Not determined
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Vapour pressure:</b>	Not determined
<b>Density and/or relative density</b>	
<b>Density:</b>	Not determined
<b>Relative density at 20 °C</b>	1.031 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined

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**9.2 Other information**

**Appearance:**

**Form:** Liquid

**Important information on protection of health and environment, and on safety.**

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Cloud point / clarification point:**

**Oxidising properties** Not oxidising

**Evaporation rate** Not determined

**Information with regard to physical hazard classes**

**Explosives** Void

**Flammable gases** Void

**Aerosols** Void

**Oxidising gases** Void

**Gases under pressure** Void

**Flammable liquids** Void

**Flammable solids** Void

**Self-reactive substances and mixtures** Void

**Pyrophoric liquids** Void

**Pyrophoric solids** Void

**Self-heating substances and mixtures** Void

**Substances and mixtures, which emit flammable gases in contact with water** Void

**Oxidising liquids** Void

**Oxidising solids** Void

**Organic peroxides** Void

**Corrosive to metals** Void

**Desensitised explosives** Void

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided** Stable at environment temperature.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid** Avoid heat, flames, sparks, other sources of ignition.

**10.5 Incompatible materials** Oxidizing agents

**10.6 Hazardous decomposition products** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity** Harmful if inhaled.

**LD/LC50 values relevant for classification:**

(CAS: 57-55-6) Propane-1,2-diol

LD50, oral, rat: 22,000 mg/kg

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LC50 (2h), inhalation, rabbit: >317 mg/L  
 LD50, dermal, rabbit: >2,000 mg/kg

**ATE (Acute Toxicity Estimates)**

Oral	LD50	3,588 mg/kg (rat)
Dermal	LD50	3,898 mg/kg (rat)
Inhalative	LC50/4 h (vapour)	10.2 mg/l

**CAS: 5538-94-3 dimethyldioctylammonium chloride**

Oral	LD50	238 mg/kg (rat)
Dermal	LD50	191 mg/kg (rat)
Inhalative	LC50(4h)	>10 mg/m <sup>3</sup> air (rat)

**CAS: 2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine**

Oral	LD50	261 mg/kg (rat)
Dermal	LD50	>600 mg/kg (rat)

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Serious eye damage/irritation** Causes serious eye damage.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Additional toxicological information:**

**Repeated dose toxicity** Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:**

Propane-1,2-diol cas number: 57-55-6  
 LC50 Oncorhynchus mykiss, 96 h: 40.613 mg/l  
 LC50 Ceriodaphnia dubia, 48 h: 18.340 mg/l  
 LC50 Mysidopsis bahia, 96 h: 18.800 mg/l  
 ErC50 Selenastrum capricornutum, 96 h: 19.000 mg/l  
 ErC50 Skeletonema costatum, 96 h: 19.100 mg/l  
 Long-term toxicity to aquatic invertebrates  
 NOEC (7 days) 13.02 - 29 g/L  
 Toxicity to microorganisms  
 EC10 or NOEC for microorganisms 20 g/L

**CAS: 5538-94-3 dimethyldioctylammonium chloride**

EC50 (72h)	0.122 mg/l (Pseudokirchneriella subcapitata)
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EC50 (48h)	0.1 mg/l (Daphnia magna)
LC50 (96h)	0.35 mg/l (Oncorhynchus mykiss)
NOEC (21d)	0.027 mg/l (Daphnia magna)
NOEC	0.018 mg/L (Pimephales promelas)

**CAS: 2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine**

LC50 (96h)	0.431 mg/l (fis)
EC10	0.0095 mg/L (algae)
NOEC(10d)	127.14 mg/kg (Corophium volutator)
NOEC (28d)	320 mg/kg (Chironomus riparius)

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects**

**Remark:** Very toxic for fish

**Additional ecological information:**

**General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Also poisonous for fish and plankton in water bodies.

The product contains materials that are harmful to the environment.

Very toxic for aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values.

A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is

considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

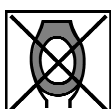
### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Recommendation



Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

#### European waste catalogue

HP8 Corrosive

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HP14 Ecotoxic

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

**14.1 UN number or ID number**

**ADR, IMDG, IATA**

UN1903

**14.2 UN proper shipping name**

**ADR**

1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (dimethyldioctylammonium chloride, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine), ENVIRONMENTALLY HAZARDOUS

**IMDG**

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (dimethyldioctylammonium chloride, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine), MARINE POLLUTANT

**IATA**

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (dimethyldioctylammonium chloride, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)

**14.3 Transport hazard class(es)**

**ADR, IMDG**



**Class**

8 Corrosive substances.

**Label**

8

**IATA**



**Class**

8 Corrosive substances.

**Label**

8

**14.4 Packing group**

**ADR, IMDG, IATA**

III

**14.5 Environmental hazards:**

**Marine pollutant:**

Environmental Hazardous

Yes

Symbol (fish and tree)

Symbol (fish and tree)

**Special marking (ADR):**

**14.6 Special precautions for user**

Warning: Corrosive substances.

**Hazard identification number (Kemler code):** 80

**EMS Number:**

F-A,S-B

**Stowage Category**

B

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**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**Transport/Additional information:**

**ADR**

**Limited quantities (LQ)**

5L

**Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

**Transport category**

3

**Tunnel restriction code**

E

**IMDG**

**Limited quantities (LQ)**

5L

**Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

**UN "Model Regulation":**

UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (DIMETHYLDIOCTYLAMMONIUM CHLORIDE, N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE), 8, III, ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as ammended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**Seveso category** E1 Hazardous to the Aquatic Environment

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

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**REGULATION (EU) 2019/1148**

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**National regulations:**

**Other regulations, limitations and prohibitive regulations**

**Substances of very high concern (SVHC) according to REACH, Article 57**

It doesn't contain substances of very high concern (SVHC).

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

- H301 Toxic if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

**Training hints**

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

**Classification according to Regulation (EC) No 1272/2008**

Acute toxicity - inhalation  
 Skin corrosion/irritation  
 Serious eye damage/irritation  
 Hazardous to the aquatic environment - short-term (acute) aquatic hazard  
 Hazardous to the aquatic environment - long-term (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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**Department issuing SDS:**

 SUSTCHEM S.A.  
REACH & Chemical Services Department  
A: 144, 3rd Septemvriou, GR 112 51 | Athens, Greece  
T: +30 210 8252510 | F: +30 210 8252575  
W: www.sustchem.gr | E: info@suschem.gr

**Version number of previous version: 2**

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

\* **Data compared to the previous version altered.**