



## J-512 SANITIZER

Revision: 2018-05-04

Version: 01.1

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

#### 1.1 Product identifier

Trade name: J-512 SANITIZER

#### 1.2 Recommended use and restrictions on use

For professional use only.

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

Diversey (Malaysia) Sdn. Bhd.

#### Contact details

No. 6, Jalan Pengarah U1/29, Seksyen U1  
Hicom Glenmarie Industrial Park  
40150 Shah Alam  
Selangor, Malaysia  
Tel : +603-5569-6363  
Fax: +603-5569-6262

#### 1.4 Emergency telephone number

Tel : +603-5569-6363

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin Corr. 1B (H314)  
Aquatic Chronic 3 (H412)

#### 2.2 Label elements



Signal word: Danger.

#### Hazard statements:

H314 - Causes severe skin burns and eye damage.  
H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P280 - Wear protective gloves, protective clothing and eye or face protection.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
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 CENTRE, doctor or physician.

#### 2.3 Other hazards

No other hazards known  
Exposure and appropriate engineering controls are specified in subsection 8.2 exposure controls.

#### 2.4 Classification diluted product:

Recommended maximum concentration (%): 0.02

Not classified as hazardous

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**SECTION 3: Composition/information on ingredients****3.1 Substances / Mixtures**

Ingredient(s)	CAS number	Classification	Weight percent
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	68956-79-6	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	3-10
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	68391-01-5	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	3-10

Workplace exposure limit(s), if available, are listed in subsection 8.1.  
For the full text of the H phrases mentioned in this Section, see Section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General Information:**

If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

**Inhalation:**

Get medical attention or advice if you feel unwell.

**Skin contact:**

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.

**Eye contact:**

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:**

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

**Self-protection of first aider:**

Consider personal protective equipment as indicated in subsection 8.2.

**4.2 Most important symptoms and effects, both acute and delayed****Inhalation:**

No known effects or symptoms in normal use.

**Skin contact:**

Causes severe burns.

**Eye contact:**

Causes severe or permanent damage.

**Ingestion:**

Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

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

No special hazards known.

**5.3 Advice for firefighters**

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing, gloves and eye/face protection.

**6.2 Environmental precautions**

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

**6.3 Methods and material for containment and cleaning up**

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

**6.4 Reference to other sections**

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For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

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

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep from freezing. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

### 7.3 Specific end use(s)

No specific advice for end use available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

### 8.2 Exposure controls

*The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.*

#### Recommended safety measures for handling the undiluted product:

*Covering activities such as filling and transfer of product to application equipment, flasks or buckets*

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

#### Personal protective equipment

**Eye / face protection:** Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**Hand protection:** Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time:  $\geq 480$  min Material thickness:  $\geq 0.7$  mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$  min Material thickness:  $\geq 0.4$  mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:** Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

#### Recommended safety measures for handling the diluted product:

**Recommended maximum concentration (%):** 0.02

**Appropriate engineering controls:** No special requirements under normal use conditions.

**Appropriate organisational controls:** No special requirements under normal use conditions.

#### Personal protective equipment

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<b>Eye / face protection:</b>	No special requirements under normal use conditions.
<b>Hand protection:</b>	No special requirements under normal use conditions.
<b>Body protection:</b>	No special requirements under normal use conditions.
<b>Respiratory protection:</b>	No special requirements under normal use conditions.
<b>Environmental exposure controls:</b>	No special requirements under normal use conditions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

	Method / remark
<b>Physical State:</b> Liquid	
<b>Colour:</b> Clear, Pink	
<b>Odour:</b> Product specific	
<b>Odour threshold:</b> Not applicable	
<b>pH:</b> ≈ 8 (neat)	ISO 4316
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> Not determined	
<b>Flash point (°C):</b> ≈ Not applicable.	closed cup
<b>Sustained combustion:</b> Not applicable. ( UN Manual of Tests and Criteria, section 32, L.2 )	
<b>Evaporation rate:</b> Not determined	Not relevant to classification of this product
<b>Flammability (solid, gas):</b> Not applicable to liquids	
<b>Upper/lower flammability limit (%):</b> Not determined	
<b>Vapour pressure:</b> Not determined	
<b>Vapour density:</b> Not determined	Not relevant to classification of this product
<b>Relative density:</b> ≈ 0.998 (20 °C)	OECD 109 (EU A.3)
<b>Solubility in / Miscibility with Water:</b> Fully miscible	
<b>Partition coefficient: n-octanol/water</b> No information available. Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3	
<b>Autoignition temperature:</b> Not determined	
<b>Decomposition temperature:</b> Not applicable.	
<b>Viscosity:</b> Not determined	Not relevant to classification of this product
<b>Explosive properties:</b> Not explosive.	
<b>Oxidising properties:</b> Not oxidising	

### 9.2 Other information

**Surface tension (N/m):** Not determined  
**Corrosion to metals:** Not corrosive

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

### 10.4 Conditions to avoid

None known under normal storage and use conditions.

### 10.5 Incompatible materials

None known under normal use conditions.

### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Mixture data:

#### Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000  
 ATE - Dermal (mg/kg): >2000

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Substance data, where relevant and available, are listed below:.

**Acute toxicity**

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	LD <sub>50</sub>	304.5	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	LD <sub>50</sub>	930	Rat	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	LC <sub>50</sub>	0.054		Method not given	

**Irritation and corrosivity**

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	No data available			

**Sensitisation**

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	No data available			

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available		No data available	
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	No evidence for genotoxicity, weight of evidence	Weight of evidence	No evidence for mutagenicity	Weight of evidence

Carcinogenicity

Ingredient(s)	Effect
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	No evidence for carcinogenicity, weight-of-evidence

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
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quaternaly ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides			No data available				
quaternaly ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides			No data available				

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
quaternaly ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available				
quaternaly ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
quaternaly ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available				
quaternaly ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
quaternaly ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available				
quaternaly ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
quaternaly ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides			No data available					
quaternaly ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
quaternaly ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available
quaternaly ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	Not applicable

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
quaternaly ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available
quaternaly ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	Not applicable

**Aspiration hazard**

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

**Potential adverse health effects and symptoms**

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

**SECTION 12: Ecological information****12.1 Toxicity**

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

**Aquatic short-term toxicity**

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
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		(mg/l)			time (h)
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		No data available			

## Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		No data available			

## Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		No data available			

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		No data available			

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available			
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		No data available			

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available				
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available				
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		No data available				

## Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides		No data available				
quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		No data available				

## Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

## 12.2 Persistence and degradability

## Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

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Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides					Not readily biodegradable.
quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides				Method not given	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available			
quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	3.91	Method not given		

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available				
quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	182.8		Method not given		

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	No data available				
quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	No data available				

**12.5 Other adverse effects**

No other adverse effects known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

**Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**Empty packaging**

**Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

**Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

**14.1 UN number:** 1760

**14.2 UN proper shipping name:**

Corrosive liquid, n.o.s. ( alkyldimethylbenzylammoniumchloride )

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

Transport hazard class (and subsidiary risks): 8



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**14.4 Packing group:** III

**14.5 Environmental hazards:**

**Environmentally hazardous:** No

**Marine pollutant:** No

**14.6 Special precautions for user:** None known.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.

**Other relevant information:**

**IMO/IMDG**

**EmS:** F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of national road transport regulations and the provisions of the IMDG Code

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

## SECTION 15: Regulatory information

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

**National regulations**

- Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

## SECTION 16: Other information

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MS4000221

**Version:** 01.1

**Revision:** 2018-05-04

**Reason for revision:**

This data sheet contains changes from the previous version in section(s):, 3, 11, 12

**Full text of the R, H and EUH phrases mentioned in section 3:**

- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H400 - Very toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

- DNEL - Derived No Effect Limit
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- OECD - Organization for Economic Cooperation and Development

**End of Safety Data Sheet**