



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 10.03.2015

Version number 6

Revision: 10.03.2015

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

- 1.1 Product identifier
- Trade name: **ZENITH Multi-Thinner STD**
- Article number: Z3030
- 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 Thinner, Diluent
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:  
Kristal Coatings B.V.  
Platinawerf 22B  
6641 TL Beuningen - Holland  
Tel: 0031 24 67 526 36  
Fax: 0031 24 67 533 60
- Further information obtainable from: Product safety department: info@kristalcoatings.nl
- 1.4 Emergency telephone number:  
National Poisoning Information Centre - Bilthoven - The Netherlands  
T +31 (0)30 274 88 88  
Restricted to physicians for information on ingredients.

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3	H226	Flammable liquid and vapour.
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GHS08 health hazard

STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R20/21-65: Harmful by inhalation and in contact with skin. Harmful: may cause lung damage if swallowed.



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

R10-52/53: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

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

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## · Hazard pictograms



GHS02

GHS07

GHS08

## · Signal word Danger

## · Hazard-determining components of labelling:

xylene

Hydrocarbons, C9, aromatics

n-butyl acetate

## · Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

## · Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe mist/vapours/spray.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## · Additional information:

Restricted to professional users.

## · 2.3 Other hazards

## · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

## · 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

## · Dangerous components:

CAS: 123-86-4	n-butyl acetate	25-50%
EINECS: 204-658-1	R10-66-67	
Reg.nr.: 01-2119485493-29	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	
CAS: 1330-20-7	xylene	25-50%
EINECS: 215-535-7	⚠ Xn R20/21-65; ⚠ Xi R36/37/38	
Reg.nr.: 01-2119488216-32	R10	
01-2119486136-34	⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312;	
01-2119555267-33	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	10-25%
EINECS: 203-603-9	R10	
Reg.nr.: 01-2119475791-29	⚠ Flam. Liq. 3, H226	
CAS: 64742-95-6	Hydrocarbons, C9, aromatics	10-25%
EC number: 918-668-5	⚠ Xn R65; ⚠ Xi R37; ⚠ N R51/53	
Reg.nr.: 01-2119455851-35	R10-66-67	
	⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	
CAS: 100-41-4	ethylbenzene	2,5-10%
EINECS: 202-849-4	⚠ Xn R20-48/20-65; ⚠ F R11	
	⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332; Aquatic Chronic 3, H412	

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- Additional information: For the wording of the listed risk 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.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation:  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- After eye contact:  
Rinse opened eye for several minutes under running water. Then consult a doctor.  
Remove contactlenses.
- After swallowing:  
Do not induce vomiting; call for medical help immediately.  
Rinse mouth.
- 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> or powder. Fight larger fights with alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO)
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:  
Inform respective authorities in case of seepage into water course or sewage system.  
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).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
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  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- Information about fire - and explosion protection:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:  
Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Keep container tightly sealed.

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- Storage class: 3
- 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

#### · 8.1 Control parameters

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

##### **1330-20-7 xylene**

IOELV Short-term value: 442 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 221 mg/m<sup>3</sup>, 50 ppm  
 Skin

##### **108-65-6 2-methoxy-1-methylethyl acetate**

IOELV Short-term value: 550 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 275 mg/m<sup>3</sup>, 50 ppm  
 Skin

##### **100-41-4 ethylbenzene**

IOELV Short-term value: 884 mg/m<sup>3</sup>, 200 ppm  
 Long-term value: 442 mg/m<sup>3</sup>, 100 ppm  
 Skin

#### · DNELs

##### **123-86-4 n-butyl acetate**

Inhalative Acute - short-term exposure - local effects 960 mg/m<sup>3</sup> (worker)  
 Acute - short-term exposure - systemic effects 960 mg/m<sup>3</sup> (worker)  
 Long-term exposure - local effects 480 mg/m<sup>3</sup> (worker)  
 Long-term exposure - systemic effects 480 mg/m<sup>3</sup> (worker)

##### **1330-20-7 xylene**

Dermal Long-term exposure - systemic effects 180 mg/kg bw/day (worker)  
 Inhalative Acute - short-term exposure - local effects 289 mg/m<sup>3</sup> (worker)  
 Acute - short-term exposure - systemic effects 289 mg/m<sup>3</sup> (worker)  
 Long-term exposure - systemic effects 77 mg/m<sup>3</sup> (worker)

##### **108-65-6 2-methoxy-1-methylethyl acetate**

Dermal Long-term exposure - systemic effects 153,5 mg/kg bw/day (worker)  
 Inhalative Long-term exposure - systemic effects 275 mg/m<sup>3</sup> (worker)

##### **64742-95-6 Hydrocarbons, C9, aromatics**

Dermal Long-term exposure - systemic effects 25 mg/kg bw/day (worker)  
 Inhalative Long-term exposure - systemic effects 150 mg/m<sup>3</sup> (wki)

##### **100-41-4 ethylbenzene**

Dermal Acute - short-term exposure - local effects 293 mg/kg bw/day (worker)  
 Long-term exposure - systemic effects 180 mg/kg bw/day (worker)  
 Inhalative Long-term exposure - systemic effects 77 mg/m<sup>3</sup> (worker)

#### · PNECs

##### **123-86-4 n-butyl acetate**

PNEC 35,6 mg/l (STP)  
 0,18 mg/l (aqua, freshwater)  
 0,36 mg/l (aqua, intermittent releases)  
 0,018 mg/l (aqua, marine water)  
 0,0981 mg/l (sediment marine water)  
 0,981 mg/kg (sediment freshwater)

##### **1330-20-7 xylene**

PNEC 6,58 mg/l (STP)  
 0,237 mg/l (aqua, freshwater)  
 0,327 mg/l (aqua, intermittent releases)  
 0,327 mg/l (aqua, marine water)

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12,46 mg/kg (sediment marine water)

**108-65-6 2-methoxy-1-methylethyl acetate**

PNEC 100 mg/l (STP)

6,35 mg/l (aqua, intermittent releases)

0,0635 mg/l (aqua, marine water)

0,635 mg/l (aqua freshwater)

0,329 mg/kg (sediment marine water)

3,29 mg/kg (sediment freshwater)

0,29 mg/kg (soil)

**100-41-4 ethylbenzene**

PNEC 9,6 mg/l (STP)

0,1 mg/l (aqua, freshwater)

0,1 mg/l (aqua, intermittent releases)

0,01 mg/l (aqua, marine water)

13,7 mg/kg (sediment freshwater)

2,68 mg/kg (soil)

- Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Do not inhale gases / fumes / aerosols.
  - Avoid contact with the eyes and skin.
- Respiratory protection:
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
  - Filter A.
- Protection of hands:



Protective gloves

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

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 preparation 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.
  - Butyl rubber, BR
- Penetration time of glove material
  - Thickness of the gloves  $\geq 0.3$  mm (butylacetate)
  - Value for the permeation: Level  $\geq 60$  min (butylacetate)
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:



Tightly sealed goggles

- Body protection: Solvent resistant protective clothing

## SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
 

Form:	Liquid
Colour:	Clear

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· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	126 °C
· Flash point:	28 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	315 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	0,7 Vol %
Upper:	10,8 Vol %
· Vapour pressure at 20 °C:	10,7 hPa
· Density at 20 °C:	0,89 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Slightly soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	10 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	100,0 %
VOC (EC)	100,00 %
· 9.2 Other information	No further relevant information available.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with strong oxidising agents.
- 10.4 Conditions to avoid High temperatures.
- 10.5 Incompatible materials: Oxidizing agents.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
- LD/LC50 values relevant for classification:
  - 123-86-4 n-butyl acetate**
  - Oral LD50 10760 mg/kg (rat) (OECD 423)
  - Dermal LD50 >14112 mg/kg (rabbit) (OECD 402)
  - Inhalative LC50/4h 23,4 mg/l (rat) (OECD 403 in vivo, aerosol)

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**1330-20-7 xylene**

Oral LD50 3523 mg/kg (rat)  
 Dermal LD50 12126 mg/kg bw (rabbit)  
 Inhalative LC50/4h 27124 mg/m<sup>3</sup> (rat)

**108-65-6 2-methoxy-1-methylethyl acetate**

Oral LD50 > 5000 mg/kg (rat)  
 Dermal LD50 > 5000 mg/kg (rat)

**64742-95-6 Hydrocarbons, C9, aromatics**

Oral LD50 3592 mg/kg (rat)  
 Dermal LD50 >3160 ml/kg (rabbit)  
 Inhalative LC50/4h >6193 ppm (rat)

**100-41-4 ethylbenzene**

Oral LD50 3500 mg/kg (rat)  
 Dermal LD50 17800 mg/kg (rabbit)

· **Primary irritant effect:**

· on the skin: Irritant to skin and mucous membranes.

· on the eye: Irritating effect.

· **Sensitisation:** No sensitising effects known.· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****123-86-4 n-butyl acetate**

EC50/48h 44 mg/l (daphnia magna)  
 EC50/72h 647,7 mg/l (desmodesmus supspicatus)  
 IC50 356 mg/l (tetrahymena pyriformis) (40 h)  
 LC50/96h 18 mg/l (pimphales promelas) (OECD 203)  
 NOAEL/72h 200 mg/l (desmodesmus supspicatus)

**1330-20-7 xylene**

EC50/48h 7,4 mg/l (daphnia magna)  
 IC50 1-10 mg/l (TISBE Marine copepod)  
 1-10 mg/l (algae)  
 > 100 mg/l (bacteria)  
 1-10 mg/l (fish)  
 NOAEL 0,1-1 mg/l (TISBE Marine copepod)  
 1-10 mg/l (fish)

**108-65-6 2-methoxy-1-methylethyl acetate**

EC50/48h 408-500 mg/l (daphnia magna)  
 LC50/96h 100-180 mg/l (oncorhynchus mykiss)

**100-41-4 ethylbenzene**

EC50/24h >100 mg/l (daphnia magna)

· **12.2 Persistence and degradability** No further relevant information available.· **Degree of elimination:****123-86-4 n-butyl acetate**

OECD 301D 83 % (l) (28 d)

· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **Ecotoxicological effects:**· **Remark:** Harmful to fish

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- Additional ecological information:
- General notes:  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Harmful to aquatic organisms
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

### SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- European waste catalogue  
07 01 04\* other organic solvents, washing liquids and mother liquors
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

### SECTION 14: Transport information

- 14.1 UN-Number
- ADR,ADN, IMDG, IATA UN1263
- 14.2 UN proper shipping name
- ADR/ADN 1263 PAINT RELATED MATERIAL
- IMDG, IATA PAINT RELATED MATERIAL
- 14.3 Transport hazard class(es)
- ADR,ADN, IMDG, IATA



- Class 3 Flammable liquids.
  - Label 3
  - 14.4 Packing group
  - ADR,ADN, IMDG, IATA III
  - 14.5 Environmental hazards:
  - Marine pollutant: No
  - 14.6 Special precautions for user Warning: Flammable liquids.
  - Danger code (Kemler): 30
  - EMS Number: F-E,S-E
  - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
  - Transport/Additional information:
- 
- ADR/ADN
  - 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 D/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

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· UN "Model Regulation":

UN1263, PAINT RELATED MATERIAL, 3, III

### SECTION 15: Regulatory information

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

· National regulations:

· Other regulations, limitations and prohibitive regulations

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

· 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

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- R10 Flammable.
- R11 Highly flammable.
- R20 Harmful by inhalation.
- R20/21 Harmful by inhalation and in contact with skin.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R37 Irritating to respiratory system.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

· Contact: Dhr. B. Peters

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3