

# SAFETY DATA SHEET

## Zeroflame AquaSteel 1001

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

#### 1.1. Product identifier:

Trade name: Zeroflame AquaSteel 1001  
Product no.: 1160-00, -25  
Unique formula identifier (UFI): 5R7Y-W0KG-G82J-X76T

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

Relevant identified uses of the substance or mixture: Water based fire protective paint  
Restricted to professional users.  
Use descriptors (REACH):  
For indoor fire protection of load bearing steel structures  
Uses advised against : None known.

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

Company and address: **Zeroflame**  
10 Flush Park, Lisburn  
BT28 2DX Co Antrim  
Ireland  
0845 3838 333  
www.zeroflame.co  
Manufacturer: **Protega AB**  
Verkstadsgatan 6B  
23166 Trelleborg, Sverige  
+46 410 56 780  
E-mail: sales@zeroflame.co  
Revision: 08/05/2025  
SDS Version: 1.0

#### 1.4. Emergency telephone number:

The National Poisons Information Centre (NPIC)  
Public: +353 (0) 1 809 2166 (7 days a week, 8am- 10pm)  
Healthcare professionals: +353 (0) 1 809 2566 (24 h service)  
See also section 4 "First aid measures"

### SECTION 2: Hazards identification

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

Carc. 2; H351, Suspected of causing cancer.  
Repr. 2; H361f, Suspected of damaging fertility.  
Titanium dioxide is not classified according to European Commission Regulation 2020/217.

#### 2.2. Label elements:

Hazard pictogram(s):



Signal word:

Warning

Hazard statement(s):

Suspected of causing cancer. (H351)  
Suspected of damaging fertility. (H361f)

Precautionary statement(s):

General:

-

Prevention:

Obtain special instructions before use. (P201)  
Wear eye protection/protective gloves/protective clothing. (P280)

Response:

-

Storage:

-

Disposal:

Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances:

1,3,5-triazine-2,4,6-triamine; melamine

Additional labelling:

EUH208, Contains 2-methylisothiazol-3(2H)-one, 1,2-benzisothiazol-3(2H)-one, 5-chloro-2-methyl-2H-isothiazol-3-one : 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

UFI: 5R7Y-W0KG-G82J-X76T

VOC:

VOC content: 45 g/L  
MAXIMUM VOC CONTENT (Phase II, category A/i (WB): 140 g/L)

### 2.3. Other hazards:

Additional warnings:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.  
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances:

Not applicable. This product is a mixture.

### 3.2. Mixtures:

Product/substance	Identifiers	% w/w	Classification	Note
1,3,5-triazine-2,4,6-triamine; melamine	CAS No.: 108-78-1 EC No.: 203-615-4 REACH: 01-2119485947-16-XXXX Index No.: 613-345-00-2	5-9,9%	Carc. 2, H351 Repr. 2, H361f STOT RE 2, H373	[5]
Reaction mass of ethylenebis(oxyethylene) dibenzoate and oxydiethylene dibenzoate and oxydipropyl dibenzoate	CAS No.: EC No.: 907-434-8 REACH: 01-2119535193-44-0000 Index No.:	1-3%	Aquatic Chronic 3, H412	
1,2-benzisothiazol-3(2H)-one	CAS No.: 2634-33-5 EC No.: 220-120-9 REACH: 01-2120761540-60-XXXX	<0.01%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 (SCL: 0.036 %)	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Index No.: 613-088-00-6			Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1)
5-chloro-2-methyl-2H-isothiazol-3-one : 2-methyl-2H-isothiazol-3-one (3:1)	CAS No.: 55965-84-9 EC No.: 911-418-6 REACH: 01-2120764691-48-XXXX Index No.:	<0.0015%	EUH071 Acute Tox. 3, H301 Acute Tox. 2, H310 Skin Corr. 1C, H314 (SCL: 0.60 %) Skin Irrit. 2, H315 (SCL: 0.06 %) Skin Sens. 1A, H317 (SCL: 0.0015 %) Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
ethanediol;ethylene glycol	CAS No.: 107-21-1 EC No.: 203-473-3 REACH: 01-2119456816-28-XXXX Index No.: 603-027-00-1	<0.0001%	Acute Tox. 4, H302 [1]

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

#### Other information:

[1] European occupational exposure limit.

[5] Substance is included in the Candidate List of substances of very high concern (SVHC).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures:

General information:	In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
Inhalation:	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
Skin contact:	Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.
Eye contact:	If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.
Ingestion:	If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.
Burns:	Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.  
Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

**Information to medics:**

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media:**

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

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

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

Nitrogen oxides (NO<sub>x</sub>)

Carbon oxides (CO / CO<sub>2</sub>)

**5.3. Advice for firefighters:**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the National Poisons Information Centre (NPIC) on +353 (0) 1 809 256 (24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures:**

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

**6.2. Environmental precautions:**

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

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

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

**6.4. Reference to other sections:**

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

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

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling:**

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.

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

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

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material: Always store in containers of the same material as the original container.

Storage conditions:  $5^{\circ}\text{C} < T < 35^{\circ}\text{C}$

Incompatible materials: Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

## 7.3. Specific end use(s):

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

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters:

Propane-1,2-diol

Long term exposure limit (8 hours) ( $\text{mg}/\text{m}^3$ ): 470 (total (vapour and particulates)) / 10(particulates)

Long term exposure limit (8 hours) (ppm): 150 (total (vapour and particulates))

Kaolin

Long term exposure limit (8 hours) ( $\text{mg}/\text{m}^3$ ): 2

ethanediol;ethylene glycol

Long term exposure limit (8 hours) ( $\text{mg}/\text{m}^3$ ): 52

Long term exposure limit (8 hours) (ppm): 20

Short term exposure limit (15 minutes) ( $\text{mg}/\text{m}^3$ ): 104

Short term exposure limit (15 minutes) (ppm): 40

Annotations:

IOELV = Indicative Occupational Exposure Limit Values are health based limits set under the Chemical Agents Directive (98/24/EC).

Sk = Substance, which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body.

2024 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens, Mutagens and Reprotoxic Substances) Regulations (2024).

## DNEL:

1,3,5-triazine-2,4,6-triamine; melamine

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	4.2 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	11.8 mg/kg
Long term – Systemic effects - Workers	Dermal	11.8 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	117 mg/kg
Short term – Systemic effects - Workers	Dermal	117 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.5 $\text{mg}/\text{m}^3$
Long term – Systemic effects - Workers	Inhalation	8.3 $\text{mg}/\text{m}^3$

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Long term – Systemic effects - Workers	Inhalation	8.3 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	82.3 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	82.3 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	420 µg/kg bw/day

#### Propane-1,2-diol

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Inhalation	10 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	168 mg/m <sup>3</sup>

#### Reaction mass of ethylenebis(oxyethylene) dibenzoate and oxydiethylene dibenzoate and oxydipropyl dibenzoate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	1.7 mg/kg
Short term – Systemic effects - Workers	Dermal	160 mg/kg
Long term – Systemic effects - Workers	Inhalation	5.8 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	35.08 mg/m <sup>3</sup>

#### PNEC:

##### Propane-1,2-diol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		260 mg/l
Freshwater sediment		572 mg/kg d.w.
Intermittent release		183 mg/l
Marine water		26 mg/l
Marine water sediment		57.2 mg/kg d.w.
Sewage treatment plant		2000 mg/l
Soil		50 mg/kg d.w.

#### Reaction mass of ethylenebis(oxyethylene) dibenzoate and oxydiethylene dibenzoate and oxydipropyl dibenzoate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0.0029 mg/l
Freshwater sediment		0.0263 mg/kg
Intermittent release		0.029 mg/l
Marine water		0.00029 mg/l
Marine water sediment		0.0263 mg/kg
Sewage treatment plant		10 mg/l
Soil		1 mg/kg

#### 8.2. Exposure controls:

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

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

Exposure scenarios: There are no exposure scenarios implemented for this product.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878


Exposure limits:	Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.
Appropriate technical measures:	Do not recirculate outlet air that contain the substances. The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the product. Avoid inhalation of vapours.
Hygiene measures:	In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.
Measures to avoid environmental exposure:	Keep damming materials near the workplace. If possible, collect spillage during work.

#### Individual protection measures, such as personal protective equipment:

Generally: Use only CE marked protective equipment.


##### Respiratory Equipment:

Work situation	Type	Class	Colour	Standards
Spray gun	S/SL	P2	White	EN149




##### Skin protection:

Recommended	Type/Category	Standards
Dedicated work clothing should be worn	-	-




##### Hand protection:

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	0,2	> 480	EN374-2, EN16523-1, EN388



##### Eye protection:

Type	Standards
Safety glasses	EN166



## SECTION 9: Physical and chemical properties

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

Physical state:	Thixotropic liquid
Colour:	White
Odour / Odour threshold:	Mild
pH:	8.7

Density (g/cm <sup>3</sup> ):	1.4 (23 °C)
Kinematic viscosity:	700-1200 mPa.s (23 °C)
Particle characteristics:	Not applicable

**Phase changes:**

Melting point/Freezing point (°C):	Not applicable
Softening point/range (°C):	Does not apply to liquids.
Boiling point (°C):	Not applicable
Vapour pressure:	Not applicable
Relative vapour density:	Not applicable
Decomposition temperature (°C):	Not applicable

**Data on fire and explosion hazards:**

Flash point (°C):	Not applicable
Flammability (°C):	Not applicable
Auto-ignition temperature (°C):	Not applicable
Lower and upper explosion limit (% v/v):	Not applicable

**Solubility:**

Solubility in water:	Completely soluble
n-octanol/water coefficient (LogKow):	Not applicable
Solubility in fat (g/L):	Not applicable

**9.2. Other information:**

Evaporation rate (n-butylacetate = 100):	Not applicable
VOC (g/L):	45
Other physical and chemical parameters:	No data available.
Oxidizing properties:	Not applicable

## SECTION 10: Stability and reactivity

**10.1. Reactivity:**

No data available.

**10.2. Chemical stability:**

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

**10.3. Possibility of hazardous reactions:**

None known.

**10.4. Conditions to avoid:**

None known.

**10.5. Incompatible materials:**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

**Acute toxicity:**

Product/substance	Propane-1,2-diol
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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	22000 mg/kg

Product/substance	Propane-1,2-diol
Species:	Rabbit
Route of exposure:	Inhalation
Test:	LC50
Result:	317042 mg/L

Product/substance	Propane-1,2-diol
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg

Product/substance	Reaction mass of ethylenebis(oxyethylene) dibenzoate and oxydiethylene dibenzoate and oxydipropyl dibenzoate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	3455 mg/kg

Product/substance	Reaction mass of ethylenebis(oxyethylene) dibenzoate and oxydiethylene dibenzoate and oxydipropyl dibenzoate
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	>2000 mg/L

Product/substance	Reaction mass of ethylenebis(oxyethylene) dibenzoate and oxydiethylene dibenzoate and oxydipropyl dibenzoate
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg

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

#### Skin corrosion/irritation:

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

#### Serious eye damage/irritation:

Product/substance	Propane-1,2-diol
Species:	Rabbit
Duration:	No data available.
Result:	No adverse effect observed (Not irritating)

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

#### Respiratory sensitisation:

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

#### Skin sensitisation:

Product/substance	Propane-1,2-diol
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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Species:	Rabbit
Description:	Ingen irritation
Result:	No adverse effect observed (not sensitising)

Product/substance	Propane-1,2-diol
Test method:	OECD 406
Species:	Guinea pig
Description:	Ingen sensibiliserings
Result:	No adverse effect observed (not sensitising)

This product contains substances that may trigger an allergic reaction in already sensitized persons.

#### **Germ cell mutagenicity:**

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

#### **Carcinogenicity:**

Suspected of causing cancer.

#### **Reproductive toxicity:**

Suspected of damaging fertility.

#### **STOT-single exposure:**

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

#### **STOT-repeated exposure:**

Product/substance	Propane-1,2-diol
Target organ:	Central nervous system
Duration:	No data available.
Result:	Kan orsaka effekt
Conclusion:	Adverse effect observed

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

#### **Aspiration hazard:**

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

### **11.2. Information on other hazards:**

#### **Long term effects:**

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

Reproductive toxicity: This product contains reprotoxic substances, which may harm the reproductive capacity.

Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.

#### **Endocrine disrupting properties:**

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

#### **Other information:**

1,3,5-triazine-2,4,6-triamine; melamine has been classified by IARC as a group 2B carcinogen.

## **SECTION 12: Ecological information**

### **12.1. Toxicity:**

Product/substance	Propane-1,2-diol
Species:	Fish
Duration:	96 hours
Test:	LC50

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result: 40613 mg/L

Product/substance Propane-1,2-diol  
Species: Daphnia  
Duration: 48 hours  
Test: LC50  
Result: 18340 mg/L

Product/substance Propane-1,2-diol  
Species: Bacteria  
Duration: 24 hours  
Test: NOEC  
Result: 20000 mg/L

Product/substance Propane-1,2-diol  
Species: Daphnia  
Duration: 7 days  
Test: NOEC  
Result: 13020 mg/L

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

## 12.2. Persistence and degradability:

Product/substance 1,3,5-triazine-2,4,6-triamine; melamine  
Result: 0%  
Conclusion: Not biodegradable  
Test: OECD 301 C

Product/substance Kaolin  
Conclusion: Not biodegradable

## 12.3. Bioaccumulative potential:

Product/substance 1,3,5-triazine-2,4,6-triamine; melamine  
BCF: 1  
Conclusion: No potential for bioaccumulation

Product/substance Propane-1,2-diol  
BCF: 0.09  
LogKow: -1.07  
Conclusion: -

Product/substance Kaolin  
Conclusion: No potential for bioaccumulation

## 12.4. Mobility in soil:

No data available.

## 12.5. Results of PBT and vPvB assessment:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

## 12.6. Endocrine disrupting properties:

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

## 12.7. Other adverse effects:

None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods:

Product is covered by the regulations on hazardous waste. (\*)

HP 7 – Carcinogenic

HP 10 – Toxic for reproduction

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code: 08 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances

### Contaminated packing:

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

### Additional information:

Not dangerous goods according to ADR, IATA and IMDG.

### 14.6. Special precautions for user:

Not applicable.

### 14.7. Maritime transport in bulk according to IMO instruments:

No data available.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

Restrictions for application:	<p>Restricted to professional users.</p> <p>People under the age of 18 shall not be exposed to this product.</p> <p>Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.</p>
Demands for specific education:	No specific requirements.
SEVESO - Categories / dangerous substances:	Not applicable.
Additional information:	Not applicable.
Sources:	<p>Protection of Young Persons (Employment) Act, 1996</p> <p>Maternity Protection Act 1994 (34/1994) with later amendments.</p> <p>S.I. No. 199/2007 - Limitation of Emissions of Volatile Organic Compounds</p>

Due to the Use of Organic Solvents in Certain Paints, Varnishes and Vehicle Refinishing Products Regulations 2007.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment:

No

### SECTION 16: Other information

#### Full text of H-phrases as mentioned in section 3:

EUH071, Corrosive to the respiratory tract.

H301, Toxic if swallowed.

H302, Harmful if swallowed.

H310, Fatal in contact with skin.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H318, Causes serious eye damage.

H330, Fatal if inhaled.

H351, Suspected of causing cancer.

H361f, Suspected of damaging fertility.

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.

H412, Harmful to aquatic life with long lasting effects.

#### Abbreviations and acronyms:

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWG = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

**Additional information:**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

**The safety data sheet is validated by:**

IED

**Other:**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: IE-en