

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

# **DESGUARD 20**

# Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name : DESGUARD 20

Product code : 104265E

Use of the : Cleaner and disinfectant

Substance/Mixture

Substance type: : Mixture

For professional users only.

Product dilution information : 1.0 % - 2.0 %

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

Identified uses : Surface disinfectant. Spray and rinse manual process

Kitchen cleaner. Spray and wipe manual process

Recommended restrictions

on use

: Reserved for industrial and professional use.

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

Company : Ecolab Ltd.

PO Box 11; Winnington Avenue

Northwich, Cheshire, United Kingdom CW8 4DX

+ 44 (0)1606 74488 ccs@ecolab.com

### 1.4 Emergency telephone number

Emergency telephone : +441618841235

number +32-(0)3-575-5555 Trans-European

Poison Information Centre

telephone number

: For medical professionals only: 0344 892 0111

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# **Section: 2. HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

**Product AS SOLD** 

Corrosive to metals, Category 1 H290 Skin corrosion, Sub-category 1B H314

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Serious eye damage, Category 1 H318
Acute aquatic toxicity, Category 1 H400
Chronic aquatic toxicity, Category 2 H411

#### **Product AT USE DILUTION**

Not a hazardous substance or mixture.

# 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

**Product AS SOLD** 

Hazard pictograms :





Signal Word : Danger

Hazard Statements : H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard

Statements

**Precautionary Statements** 

: EUH071 : **Prevention:** 

Corrosive to the respiratory tract.

P260 Do not breathe spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P310

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.

Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

benzalkonium chloride

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

# **Product AT USE DILUTION**

Not a hazardous substance or mixture.

# 2.3 Other hazards

**Product AS SOLD** 

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.2 Mixtures

Product AS SOLD Hazardous components

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Chemical Name	CAS-No. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
benzalkonium chloride	68424-85-1 270-325-2 01-2119965180-41	Acute toxicity Category 4; H302 Skin corrosion Category 1B; H314 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410  M = 10	>= 5 - < 10
		M(Chronic) = 1	
N-(3-aminopropyl)-N- dodecylpropane-1,3- diamine	2372-82-9 219-145-8 01-2119980592-29	Acute toxicity Category 3; H301 Skin corrosion Category 1A; H314 Serious eye damage Category 1; H318 Specific target organ toxicity - repeated exposure Category 2; H373 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410  M = 10 M(Chronic) = 1	>= 3 - < 5
C10-16 Polyglycoside	110615-47-9 01-2119489418-23	Skin irritation Category 2; H315 Serious eye damage Category 1; H318  Serious eye damage/eye irritation Category 1 > 12 - 100 % Serious eye damage/eye irritation Category 2 1 - 12 % Skin corrosion/irritation Category 2 30 - 100 %	>= 1 - < 2.5

# Product AT USE DILUTION Hazardous components

Chemical Name	CAS-No.	Classification	Concentration
	EC-No.	REGULATION (EC) No 1272/2008	: [%]
	REACH No.	112002/11/01/ (20) 110 12/2/2000	. [, 0]
		4	0.4
benzalkonium chloride	68424-85-1	Acute toxicityCategory 4; H302	>= 0.1 - <
	270-325-2	Skin corrosionCategory 1B; H314	0.25
	01-2119965180-41	Serious eye damageCategory 1; H318	
		Acute aquatic toxicityCategory 1; H400	
		Chronic aquatic toxicityCategory 1; H410	
		Cilionic aqualic loxicity category 1, 11410	
		M = 10	
		M(Chronic) = 1	
N-(3-aminopropyl)-N-	2372-82-9	Acute toxicityCategory 3; H301	>= 0.025 - <
dodecylpropane-1,3-	219-145-8	Skin corrosionCategory 1A; H314	0.1
diamine	01-2119980592-29	Serious eye damageCategory 1; H318	0.1
ulamine	01-2119960392-29		
		Specific target organ toxicity - repeated	
		exposureCategory 2; H373	
		Acute aquatic toxicityCategory 1; H400	
		Chronic aquatic toxicityCategory 1; H410	
		- Cincinc aquain to asky datagory 1, 11110	
		M 10	
		M = 10	
		M(Chronic) = 1	

For the full text of the H-Statements mentioned in this Section, see Section 16.

# Section: 4. FIRST AID MEASURES

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#### 4.1 Description of first aid measures

**Product AS SOLD** 

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.

Wash clothing before reuse. Thoroughly clean shoes before

reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical

attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention

if symptoms occur.

**Product AT USE DILUTION** 

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

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

See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.

# **Section: 5. FIREFIGHTING MEASURES**

#### **Product AS SOLD**

# 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

# 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Not flammable or combustible.

Hazardous combustion

products

: Depending on combustion properties, decomposition products

may include following materials:

Carbon oxides

nitrogen oxides (NOx) Hydrogen chloride

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#### 5.3 Advice for firefighters

for firefighters

Special protective equipment : Use personal protective equipment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or

explosion do not breathe fumes.

# Section: 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

#### **Product AS SOLD**

Advice for non-emergency personnel

: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Advice for emergency

responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

# **Product AT USE DILUTION**

Advice for non-emergency

personnel

Advice for emergency

responders

: Refer to protective measures listed in sections 7 and 8.

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

# 6.2 Environmental precautions

**Product AS SOLD** 

Environmental precautions : Do not allow contact with soil, surface or ground water.

**Product AT USE DILUTION** 

Environmental precautions : No special environmental precautions required.

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

#### **Product AS SOLD**

Methods for cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

# **Product AT USE DILUTION**

Methods for cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material

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or otherwise contain material to ensure runoff does not reach a waterway.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.

For personal protection see section 8.

See Section 13 for additional waste treatment information.

# Section: 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### **Product AS SOLD**

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Use only

with adequate ventilation. Wash hands thoroughly after handling. Do not breathe spray, vapour. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal

Protective Equipment (PPE).

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing

of the eyes and body in case of contact or splash hazard.

#### **Product AT USE DILUTION**

Advice on safe handling : Wash hands after handling. In case of mechanical malfunction, or

if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). For personal protection see section

8.

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

# 7.2 Conditions for safe storage, including any incompatibilities

# **Product AS SOLD**

Requirements for storage areas and containers

: Absorb spillage to prevent material damage. Keep out of reach of

children. Keep container tightly closed. Keep only in original

packaging. Store in suitable labeled containers.

Storage temperature : 0 °C to 35 °C

Packaging material : Suitable material: Plastic material

Unsuitable material: Mild steel, Aluminium

#### **Product AT USE DILUTION**

Requirements for storage areas and containers

: Keep out of reach of children. Keep container tightly closed. Store

in suitable labeled containers.

#### 7.3 Specific end uses

# Product AS SOLD

Specific use(s) : Surface disinfectant. Spray and rinse manual process Kitchen cleaner. Spray and wipe manual process

# Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### 8.1 Control parameters

#### **Product AS SOLD**

Contains no substances with occupational exposure limit values.

# 8.2 Exposure controls

# **Product AS SOLD**

#### Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

#### Individual protection measures

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after

handling. Provide suitable facilities for quick drenching or flushing

of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Safety goggles

Face-shield

Hand protection (EN 374) : Recommended preventive skin protection

Gloves Nitrile rubber butyl-rubber

Breakthrough time: 1 – 4 hours

Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4

mm or equivalent (please refer to the gloves

manufacturer/distributor for advise).

Gloves should be discarded and replaced if there is any indication

of degradation or chemical breakthrough.

Skin and body protection

(EN 14605)

: Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing including

appropriate safety shoes

Respiratory protection (EN

143, 14387)

: When respiratory risks cannot be avoided or sufficiently limited by

technical means of collective protection or by measures, methods or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, (EU) 2016/425), or equivalent, with filter type:A-P

# Product AT USE DILUTION Appropriate engineering controls

Engineering measures : Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

Eye/face protection (EN

166)

: No special protective equipment required.

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Hand protection (EN 374) No special protective equipment required.

Skin and body protection

(EN 14605)

: No special protective equipment required.

Respiratory protection (EN

143, 14387)

: None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified

respiratory protection equipment meeting EU

requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods

or procedures of work organization.

# **Environmental exposure controls**

General advice : Consider the provision of containment around storage vessels.

# Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

**Product AT USE DILUTION Product AS SOLD** 

: Not applicable and/or not determined for the mixture

**Appearance** : liquid liquid

Colour : dark violet

Odour Perfumes, fragrances pleasant 9.9 - 10.9, 100 % 9.2 - 9.3pΗ

Flash point : Not applicable.

Odour Threshold : Not applicable and/or not determined for the mixture Melting point/freezing point : Not applicable and/or not determined for the mixture Initial boiling point and : Not applicable and/or not determined for the mixture

boiling range

: Not applicable and/or not determined for the mixture Evaporation rate Flammability (solid, gas) : Not applicable and/or not determined for the mixture Upper explosion limit : Not applicable and/or not determined for the mixture Lower explosion limit : Not applicable and/or not determined for the mixture : Not applicable and/or not determined for the mixture Vapour pressure

: 0.992 - 1.002 Relative density

Water solubility : soluble

Solubility in other solvents : Not applicable and/or not determined for the mixture Partition coefficient: n-: Not applicable and/or not determined for the mixture

Relative vapour density

octanol/water Auto-ignition temperature : Not applicable and/or not determined for the mixture Thermal decomposition : Not applicable and/or not determined for the mixture Viscosity, kinematic : Not applicable and/or not determined for the mixture Explosive properties : Not applicable and/or not determined for the mixture : The substance or mixture is not classified as oxidizing. Oxidizing properties

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#### 9.2 Other information

Not applicable and/or not determined for the mixture

# Section: 10. STABILITY AND REACTIVITY

# **Product AS SOLD** 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

# 10.2 Chemical stability

Stable under normal conditions.

# 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

# 10.4 Conditions to avoid

None known.

# 10.5 Incompatible materials

None known.

# 10.6 Hazardous decomposition products

Depending on combustion properties, decomposition products may include following materials: Carbon oxides nitrogen oxides (NOx) Hydrogen chloride

# **Section: 11. TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects

**Product AS SOLD** 

exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

**Product** 

: Acute toxicity estimate : > 2,000 mg/kg Acute oral toxicity

Acute inhalation toxicity : There is no data available for this product.

Acute dermal toxicity : There is no data available for this product.

Skin corrosion/irritation : There is no data available for this product.

Serious eye damage/eye

irritation

: There is no data available for this product.

Respiratory or skin : There is no data available for this product.

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sensitization

Carcinogenicity : There is no data available for this product.

Reproductive effects : There is no data available for this product.

Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.

STOT - single exposure : There is no data available for this product.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : benzalkonium chloride LD50 rat: 344 mg/kg

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine LD50 rat: 261

mg/kg

C10-16 Polyglycoside LD50 rat: > 5,000 mg/kg

Components

Acute dermal toxicity : benzalkonium chloride LD50 rabbit: 3,340 mg/kg

**Potential Health Effects** 

**Product AS SOLD** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

**Product AT USE DILUTION** 

Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

# Experience with human exposure

**Product AS SOLD** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

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Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Product AT USE DILUTION** 

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

# Section: 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

**Product AS SOLD** 

**Environmental Effects** : Very toxic to aquatic life. Toxic to aquatic life with long lasting

effects.

**Product AT USE DILUTION** 

**Environmental Effects** : This product has no known ecotoxicological effects.

**Product AS SOLD** 

**Product** 

Toxicity to fish : no data available Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

: C10-16 Polyglycoside96 h LC50 Brachydanio rerio (zebrafish): Toxicity to fish

2.95 mg/l

Components

aquatic invertebrates

Toxicity to daphnia and other : benzalkonium chloride48 h EC50 Daphnia magna (Water flea):

0.016 mg/l

C10-16 Polyglycoside48 h EC50 Daphnia magna (Water flea): 7

mg/l

Components

Toxicity to algae : N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine72 h EC50:

0.014 mg/l

C10-16 Polyglycoside72 h EC50 Desmodesmus subspicatus

(green algae): 12.5 mg/l

# 12.2 Persistence and degradability

**Product** 

Biodegradability : The surfactants contained in the product are biodegradable

according to the requirements of the detergent regulation

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648/2004/EC

Components

Biodegradability : benzalkonium chlorideResult: Biodegradable

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamineResult: Readily

biodegradable.

C10-16 PolyglycosideResult: Readily biodegradable.

#### 12.3 Bioaccumulative potential

no data available

# 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

#### **Product**

Assessment : This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

#### 12.6 Other adverse effects

no data available

# Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

#### 13.1 Waste treatment methods

# **Product AS SOLD**

Product : Do not contaminate storm water drains, natural waterways or soil

with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations

Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken

to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local,

state, and federal regulations.

Guidance for Waste Code

selection

: Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and

assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC)

and local regulations.

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**Product AT USE DILUTION** 

Product : Diluted product can be flushed to sanitary sewer if regulations

permit.

Contaminated packaging : Dispose of in accordance with local, state, and federal regulations.

# Section: 14. TRANSPORT INFORMATION

#### **Product AS SOLD**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number : 1903

14.2 UN proper shipping : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.

name

(quaternary ammonium compound, Alkylamine(s))

: Disinfectant, liquid, corrosive, n.o.s.

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III 14.5 Environmental hazards : Yes

14.6 Special precautions for : None

user

Air transport (IATA)

14.1 UN number : 1903

14.2 UN proper shipping

name

(quaternary ammonium compound, Alkylamine(s))

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III 14.5 Environmental hazards : Yes

14.6 Special precautions for

user

: None

Sea transport (IMDG/IMO)

14.1 UN number : 1903

14.2 UN proper shipping : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.

name

(quaternary ammonium compound, Alkylamine(s))

14.3 Transport hazard : 8

class(es)

14.4 Packing group : III 14.5 Environmental hazards : Yes

14.6 Special precautions for : None

user

14.7 Transport in bulk : Not applicable.

according to Annex II of MARPOL 73/78 and the IBC

Code

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# Section: 15. REGULATORY INFORMATION

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

according to Detergents : 5 % or over but less than 15 %: Cationic surfactants

Regulation EC 648/2004 less than 5 %: Non-ionic surfactants

Contains: Perfumes Contains: Disinfectants

Seveso III: Directive **ENVIRONMENTAL HAZARDS E1** 

2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

Lower tier: 100 t Upper tier: 200 t

Candidate List of Substances : Not applicable.

of Very High Concern for

Authorisation

# **National Regulations**

#### Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations : The Chemicals (Hazard Information and Packaging for Supply)

Regulations.

The Control of Substances Hazardous to Health Regulations.

Health and Safety at Work Act.

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out on the product.

# **Section: 16. OTHER INFORMATION**

# Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Corrosive to metals 1, H290	Based on product data or assessment
Skin corrosion 1B, H314	Calculation method
Serious eye damage 1, H318	Calculation method
Acute aquatic toxicity 1, H400	Calculation method
Chronic aquatic toxicity 2, H411	Calculation method

#### **Full text of H-Statements**

Toxic if swallowed.
Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes skin irritation.
Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

# Full text of other abbreviations

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

# **Further information**

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Annex: Exposure Scenarios** 

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