

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date first issue: 01/08/2008 Review date: 17/02/2023 Supersedes version of: 10/12/2020 Version: 8.2

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

1.1. Product identifier

Product form : Mixture Product name : ZAKOL Product code : 501

Type of product : Detergent, Acids

: Mixture Product group

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

1.2.1. Relevant identified uses

: Professional use, Industrial use Main use category

Industrial/Professional use spec : Industrial

For professional use only

: Cleaner Use of the substance/mixture

Descaler

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer Supplier Clover Chemicals Ltd Christeyns NV Clover House Macclesfield Road Afrikalaan 182 SK23 7DQ Whaley Bridge - Derbyshire 9000 GENT United Kingdom Belgium

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1.4. Emergency telephone number

| Country | Official advisory body | Address | Emergency number | Comment |
|----------------|--|--|--|-----------------------------------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH | 0344 892 0111 | Only for healthcare professionals |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

H314 Skin corrosion/irritation, Category 1 Serious eye damage/eye irritation, Category 1 H318 Hazardous to the aquatic environment - Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

GHS05

CLP Signal word : Danger

Contains : Bis (2-hydroxyethyl) oleyl amine; Hydrochloric acid ...% Hazard statements (CLP)

: H314 - Causes severe skin burns and eye damage.

H412 - Harmful to aquatic life with long lasting effects.

: P102 - Keep out of reach of children. Precautionary statements (CLP)

P260 - Do not breathe fume.

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P280 - Wear protective gloves, eye protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P315 - Get immediate medical advice/attention.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

P362 - Take off contaminated clothing.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

| Component | |
|---|--|
| Bis (2-hydroxyethyl) oleyl amine (25307-17-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Cetyl trimethyl ammonium chloride (112-02-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|--------|---|
| Hydrochloric acid% substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit | CAS-no: 7647-01-0 Einecs nr: 231-595-7 EG annex nr: 017-002-01-X REACH-no: 01-2119484862- 27 | 5 – 10 | Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Met. Corr. 1, H290 |
| Bis (2-hydroxyethyl) oleyl amine | CAS-no: 25307-17-9 Einecs nr: 246-807-3 REACH-no: 01-2119510876- 35 | 1 – 3 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) |
| Cetyl trimethyl ammonium chloride | CAS-no: 112-02-7 Einecs nr: 203-928-6 REACH-no: 01-2119970558- 23 | < 1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |

| Specific concentration limits: | | |
|--------------------------------|--|---|
| Name | Product identifier | Specific concentration limits |
| Hydrochloric acid% | CAS-no: 7647-01-0 Einecs nr: 231-595-7 EG annex nr: 017-002-01-X REACH-no: 01-2119484862- 27 | (10 ≤C < 100) STOT SE 3, H335 (10 ≤C < 25) Eye Irrit. 2, H319 (10 ≤C < 25) Skin Irrit. 2, H315 (25 ≤C < 100) Skin Corr. 1B, H314 |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures 4.1. Description of first aid measures

General advice

[:] Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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Inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Acute effects inhalation : Inhalation may cause irritation, cough, shortness of breath.

Acute effects skin : Causes severe burns. Red skin.
Acute effects eyes : Causes serious eye damage.

Acute effects oral route : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Hydrogen chloride. Phosgene.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent

formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, well-ventilated place. Keep container tightly closed.

Incompatible products : Strong bases.
Packaging materials : polyethylene.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Hydrochloric acid% (7647-01-0) | |
|--|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name Hydrogen chloride | |

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| Hydrochloric acid% (7647-01-0) | |
|--------------------------------|----------|
| IOEL TWA | 8 mg/m³ |
| IOEL TWA [ppm] | 5 ppm |
| IOEL STEL | 15 mg/m³ |
| IOEL STEL [ppm] | 10 ppm |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure that there is a suitable ventilation system.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Protective equipment:

Acid-resistant clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Blue.

Physical state/form : Liquid.

Odour : Pine. Floral.

Odour threshold : Not available

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Melting point/range : 0 °C

Freezing point : Not available Boiling point/Boiling range : 100 °C

Flammability : Non flammable.

Explosive limits : Not available

Lower explosion limit : Not available

Upper explosion limit : Not available

Flash point : Not available

Autoignition temperature : Not available

Decomposition temperature : Not available

pH : 0 – 1

Viscosity, kinematic : Not available Viscosity, dynamic : 300 cP at 20 °C Solubility : Soluble in water. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : 1.04

Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong bases.

10.6. Hazardous decomposition products

fume. Hydrogen chloride. Phosgene.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Bis (2-hydroxyethyl) oleyl amine (25307-17-9) | |
|---|----------------------|
| LD50 oral rat | 300 – 2000 ml/kg |
| ATE CLP (oral) | 500 mg/kg bodyweight |

Cetyl trimethyl ammonium chloride (112-02-7)

| LD50 oral rat | 699 mg/kg |
|----------------|----------------------|
| ATE CLP (oral) | 699 mg/kg bodyweight |

Skin corrosion/irritation : Causes severe skin burns.

pH: 0 – 1

Serious eye damage/irritation : Causes serious eye damage.

pH: 0 – 1

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Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

| Hydrochloric acid. | 0/ | /7647_01_0\ | |
|---------------------|----|--------------------|--|
| HIVUIOCIIIONE ACIU. | /0 | 1 / O4 / -U I -U I | |

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Bis (2-hydroxyethyl) oleyl amine (25307-17-9)

Viscosity, kinematic 165 mm²/s

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and

symptoms

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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

(acute)

term : Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Harmful to aquatic life with long lasting effects.

Not rapidly degradable

| Bis (2-hydroxyethyl) oleyl amine (25307-17-9) | |
|---|------------------|
| LC50 - Fish [1] | 0.1 – 1 mg/l |
| EC50 - Crustacea [1] | 0.01 – 0.1 mg/l |
| EC50 72h - Algae [1] | 0.01 – 0.1 mg/l |
| Cetyl trimethyl ammonium chloride (112-02-7) | |
| LC50 - Fish [1] | 0.19 – 0.29 mg/l |
| EC50 - Crustacea [1] | 0.28 mg/l |
| ErC50 algae | 0.08 mg/l |
| NOEC chronic algae | 0.04 mg/l |

12.2. Persistence and degradability

| 12.2. Persistence and degradability | | |
|--|----------------|--|
| ZAKOL | | |
| Persistence and degradability | Biodegradable. | |
| Bis (2-hydroxyethyl) oleyl amine (25307-17-9) | | |
| Persistence and degradability May cause long-term adverse effects in the environment. | | |
| Cetyl trimethyl ammonium chloride (112-02-7) | | |
| Persistence and degradability May cause long-term adverse effects in the environment. | | |

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12.3. Bioaccumulative potential

| ZAKOL | | |
|---|--|--|
| Bioaccumulative potential | No bioaccumulation. | |
| Bis (2-hydroxyethyl) oleyl amine (25307-17-9) | | |
| Log Pow | 3.4 | |
| Bioaccumulative potential | Bioaccumulation unlikely. Not established. | |
| Cetyl trimethyl ammonium chloride (112-02-7) | | |
| Bioconcentration factor (BCF REACH) | 79 | |
| Log Pow | 3.08 | |
| Bioaccumulative potential | Not established. | |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

| ZAKOL | | | |
|--|--|--|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII | | | |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | | | |
| Component | | | |
| Bis (2-hydroxyethyl) oleyl amine (25307-17-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | | |
| Cetyl trimethyl ammonium chloride (112-02-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | | |

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

Waste / unused products

HP Code

- : Dispose in a safe manner in accordance with local/national regulations.
- : Avoid release to the environment.
- : HP8 "Corrosive:" waste which on application can cause skin corrosion.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR | IMDG | IATA | | | |
|---|--|--|--|--|--|
| 14.1. UN number or ID number | | | | | |
| UN 3264 | UN 3264 | UN 3264 | | | |
| 14.2. UN proper shipping name | | | | | |
| CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid) | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid) | Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid) | | | |
| Transport document description | | | | | |
| UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid), 8, II, (E) | UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid), 8, II | UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid), 8, II | | | |
| 14.3. Transport hazard class(es) | | | | | |
| 8 | 8 | 8 | | | |
| 8 | 8 | B | | | |

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| ADR | IMDG | IATA | |
|-----------------------------------|---|-----------------------------------|--|
| 14.4. Packing group | | | |
| II | II | II | |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | |

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C1
Special provisions (ADR) : 274
Limited quantities (ADR) : 11

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions : T11

(ADR)

Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 80

Orange plates

80

: TP2, TP27

Tunnel code : E
EAC code : 2X
APP code : B

Transport by sea

Special provisions (IMDG) : 274
Limited quantities (IMDG) : 1 L
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02

Air transport

PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A3, A803

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

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REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Detergent Regulation (648/2004)

Allergenic fragrances > 0.01 %:

D-Limonene

| Labelling of contents | | |
|-----------------------|-----|--|
| Component | % | |
| cationic surfactants | <5% | |
| perfumes | | |
| D-LIMONENE | | |

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

| Name | CN designation | CAS-No. | CN code | Category | Threshold | Annex |
|-------------------|-------------------|-----------|------------|------------|-----------|---------|
| Hydrochloric acid | Hydrogen chloride | 7647-01-0 | 2806 10 00 | Category 3 | | Annex I |

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

amending Regulation (EC) No 1907/2006.

Other information : None.

| Full text of H- and EUH-statements: | | |
|-------------------------------------|---|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 | |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 | |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 | |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 | |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| H290 | May be corrosive to metals. | |
| H302 | Harmful if swallowed. | |
| H314 | Causes severe skin burns and eye damage. | |
| H315 | Causes skin irritation. | |
| H318 | Causes serious eye damage. | |
| H319 | Causes serious eye irritation. | |
| H335 | May cause respiratory irritation. | |

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| Full text of H- and EUH-statements: | | |
|-------------------------------------|--|--|
| 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. | |
| Met. Corr. 1 | Corrosive to metals, Category 1 | |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B | |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C | |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 | |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | | |
|---|------|-----------------------|--|
| Skin Corr. 1 | H314 | On basis of test data | |
| Eye Dam. 1 | H318 | On basis of test data | |
| Aquatic Chronic 3 | H412 | Calculation method | |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.