

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HD3

Version 1.0 Revision Date: 13.06.2018 SDS Number: 103000008397 Date of last issue: 26.11.2017
Country / Language: GB / EN(GB)

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

1.1 Product identifier

Trade name : HD3
Product code : 57783884

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

Use of the Sub-stance/Mixture : Cleaning agent

1.3 Details of the supplier of the safety data sheet

Supplier : Antec International Limited
Windham Road
Chilton Industrial Estate
CO10 2XD Sudbury / Suffolk, United Kingdom
Telephone : +4922188852288
E-mail address of person responsible for the SDS : infosds@lanxess.com

1.4 Emergency telephone number

0870 190 6777. National Chemical Emergency Centre

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|--------------------------------------|--|
| Skin corrosion, Sub-category 1B | H314: Causes severe skin burns and eye damage. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Acute aquatic toxicity, Category 1 | H400: Very toxic to aquatic life. |
| Chronic aquatic toxicity, Category 2 | H411: Toxic to aquatic life with long lasting effects. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 

Signal word : Danger

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Hazard statements : H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 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.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Alcohols, C9-11-ethoxylated
Sodium silicate pentahydrate
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
tetrasodium ethylene diamine tetraacetate

2.3 Other hazards

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|-----------------------------|---|--------------------|--------------------------|
| Alcohols, C9-11-ethoxylated | 68439-46-3 | Acute Tox. 4; H302 | >= 3 - < 10 |

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| | | | |
|---|--|---|-------------|
| | | Skin Irrit. 2; H315 Eye Dam. 1; H318 | |
| Sodium silicate pentahydrate | 10213-79-3 229-912-9 01-2119449811-37 | Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335; Respiratory system | >= 5 - < 10 |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | 68424-85-1 270-325-2 | Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Aquatic Acute: 10 M-Factor Aquatic Chronic: 1 | >= 3 - < 5 |
| tetrasodium ethylene diamine tetraacetate | 64-02-8 200-573-9 607-428-00-2 01-2119486762-27 | Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT RE 2; H373 | >= 1 - < 3 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.

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Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No special measures required.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
Metal oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

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6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralise with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.
For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Protect from frost.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

This information is not available.

Personal protective equipment

- Eye protection : Tightly fitting safety goggles
or
Face-shield
- Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Eye wash bottle with pure water
- Hand protection
- Material : Nitrile rubber - NBR
Wearing time : < 60 min
- Material : Polychloroprene - CR
Wearing time : < 60 min
- Material : Fluorinated rubber - FKM
Wearing time : < 60 min
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations
- Skin and body protection : Wear suitable protective clothing.
- Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Filter type : Recommended Filter type:
- Combined inorganic and acidic gas/vapour, ammonia/amines and organic vapour type (ABEK)

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|----------------------------------|
| Appearance | : Liquid, clear |
| Colour | : dark, green |
| Odour | : characteristic |
| Odour Threshold | : No data available |
| pH | : 10,5 - 11,8 |
| Melting point/freezing point | : No data available |
| Boiling point/boiling range | : No data available |
| Flash point | : > 100 °C Method: closed cup |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : No data available |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density | : No data available |
| Relative density | : No data available |
| Density | : 1,05 g/cm ³ (20 °C) |
| Solubility(ies) Water solubility | : soluble |
| Partition coefficient: n- octanol/water | : No data available |
| Ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

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9.2 Other information

Metal corrosion rate : Not corrosive to metals

SECTION 10: Stability and reactivity

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

Hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Stable under recommended storage conditions.
No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : Incompatible with acids.
Strong oxidizing agents
Anionic surfactants
Aluminium

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides
Ammonia
Nitrogen

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

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Components:

Alcohols, C9-11-ethoxylated:

Acute oral toxicity : LD50 (Rat): 1.100 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 2.000 - 5.000 mg/kg
Method: OECD Test Guideline 401

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Acute oral toxicity : LD50 (Rat): 397 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 45 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): 3.412,5 mg/kg
Method: OPPTS 870.1200

tetrasodium ethylene diamine tetraacetate:

Acute oral toxicity : LD50 (Rat): 1.658 mg/kg
Acute toxicity estimate: 500 mg/kg
Method: Converted acute toxicity point estimate

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

Skin corrosion/irritation

Product:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Causes burns.

Components:

Alcohols, C9-11-ethoxylated:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Irritating to skin.

Sodium silicate pentahydrate:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Causes burns.

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

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Species: Rabbit
Result: Causes burns.

tetrasodium ethylene diamine tetraacetate:

Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Product:

Assessment: Risk of serious damage to eyes.

Components:

Alcohols, C9-11-ethoxylated:

Assessment: Risk of serious damage to eyes.

Sodium silicate pentahydrate:

Species: Rabbit
Result: Risk of serious damage to eyes.

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Species: Rabbit
Result: Risk of serious damage to eyes.

tetrasodium ethylene diamine tetraacetate:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Components:

Alcohols, C9-11-ethoxylated:

Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.

Sodium silicate pentahydrate:

Result: Not a skin sensitizer.

tetrasodium ethylene diamine tetraacetate:

Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406

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Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

tetrasodium ethylene diamine tetraacetate:

Genotoxicity in vitro : Test Type: Ames test
Test system: Bacteria
Metabolic activation: with and without metabolic activation
Result: negative

Reproductive toxicity

Components:

Alcohols, C9-11-ethoxylated:

Effects on fertility : Remarks: Did not show mutagenic or teratogenic effects in animal experiments.

STOT - single exposure

Components:

Sodium silicate pentahydrate:

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Assessment: May cause damage to organs through prolonged or repeated exposure.

tetrasodium ethylene diamine tetraacetate:

Exposure routes: Inhalation
Assessment: May cause damage to organs through prolonged or repeated exposure.

Further information

Product:

Remarks: No data available

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SECTION 12: Ecological information

12.1 Toxicity

Components:

Alcohols, C9-11-ethoxylated:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 8,5 - 11 mg/l
Exposure time: 96 h
Remarks: Fresh water

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 2,7 - 12 mg/l
aquatic invertebrates : Exposure time: 48 h
Remarks: Fresh water

Sodium silicate pentahydrate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 210 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 216 mg/l
aquatic invertebrates : Exposure time: 48 h

Toxicity to algae : EC0 (Desmodesmus subspicatus (green algae)): > 354,4 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,515 mg/l
Exposure time: 96 h
Remarks: Fresh water

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,016 mg/l
aquatic invertebrates : Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Fresh water

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 0,049 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0,0012 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Fresh water

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M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 0,0322 mg/l
Exposure time: 28 d
Species: Pimephales promelas (fathead minnow)
Method: OPP 72-4

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0125 mg/l
Exposure time: 21 Days
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Remarks: Fresh water

M-Factor (Chronic aquatic toxicity) : 1

tetrasodium ethylene diamine tetraacetate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 121 mg/l
Exposure time: 96 h
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 610 mg/l
Exposure time: 24 h
Method: ISO 6341
Remarks: Fresh water

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l
Exposure time: 72 h
Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : NOEC: > 25,7 mg/l
Exposure time: 35 Days
Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 210
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 25 mg/l
Exposure time: 21 Days
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Remarks: Fresh water

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12.2 Persistence and degradability

Components:

Alcohols, C9-11-ethoxylated:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 80 %
Exposure time: 28 d

Sodium silicate pentahydrate:

Biodegradability : Result: The methods for determining the biological degradability are not applicable to inorganic substances.

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

tetrasodium ethylene diamine tetraacetate:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 10 %
Exposure time: 28 d
Method: OECD Test Guideline 302B

12.3 Bioaccumulative potential

Components:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Partition coefficient: n-octanol/water : log Pow: 0,5

tetrasodium ethylene diamine tetraacetate:

Bioaccumulation : Bioconcentration factor (BCF): 1,8

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..

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12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADN : UN 1760
ADR : UN 1760
RID : UN 1760
IMDG : UN 1760
IATA : UN 1760

14.2 UN proper shipping name

ADN : CORROSIVE LIQUID, N.O.S.
(ALKYL DIMETHYL AMMONIUM CHLORIDE, SODIUM METASILICATE)

ADR : CORROSIVE LIQUID, N.O.S.
(ALKYL DIMETHYL AMMONIUM CHLORIDE, SODIUM METASILICATE)

RID : CORROSIVE LIQUID, N.O.S.
(ALKYL DIMETHYL AMMONIUM CHLORIDE, SODIUM METASILICATE)

IMDG : CORROSIVE LIQUID, N.O.S.
(ALKYL DIMETHYL AMMONIUM CHLORIDE, SODIUM METASILICATE)

IATA : Corrosive liquid, n.o.s.

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(ALKYL DIMETHYL AMMONIUM CHLORIDE, SODIUM METASILICATE)

14.3 Transport hazard class(es)

ADN : 8
ADR : 8
RID : 8
IMDG : 8
IATA : 8

14.4 Packing group

ADN
Packing group : II
Classification Code : C9
Hazard Identification Number : 80
Labels : 8



ADR
Packing group : II
Classification Code : C9
Hazard Identification Number : 80
Labels : 8



Tunnel restriction code : E

RID
Packing group : II
Classification Code : C9
Hazard Identification Number : 80
Labels : 8



IMDG
Packing group : II
Labels : 8

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IATA (Cargo)

Packing instruction (cargo aircraft) : 855: 30,00 L
Packing group : II
Labels : 8
:



IATA (Passenger)

Packing instruction (passenger aircraft) : 851: 1,00 L
Packing group : II
Labels : 8
:



14.5 Environmental hazards

ADN

Environmentally hazardous : yes



ADR

Environmentally hazardous : yes



RID

Environmentally hazardous : yes



IMDG

Marine pollutant : yes

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IATA (Passenger)

Environmentally hazardous : yes



IATA (Cargo)

Environmentally hazardous : yes



14.6 Special precautions for user / Additional advice

Hazard statements : Corrosive.
Environmentally hazardous substance.
Keep away from foodstuffs, acids and alkalis.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

| | | | |
|----|--------------------------|---------------------|---------------------|
| E1 | ENVIRONMENTAL HAZARDS | Quantity 1 100 t | Quantity 2 200 t |
|----|--------------------------|---------------------|---------------------|

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

not applicable

Chemical Safety Assessment not yet performed.

SECTION 16: Other information

Full text of H-Statements

| | |
|------|---|
| 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. |
| H332 | : Harmful if inhaled. |
| H335 | : May cause respiratory irritation. |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |
| H373 | : May cause damage to organs through prolonged or repeated exposure if inhaled. |
| H400 | : Very toxic to aquatic life. |
| H410 | : Very toxic to aquatic life with long lasting effects. |

Full text of other abbreviations

| | |
|-----------------|--|
| Acute Tox. | : Acute toxicity |
| Aquatic Acute | : Acute aquatic toxicity |
| Aquatic Chronic | : Chronic aquatic toxicity |
| Eye Dam. | : Serious eye damage |
| Met. Corr. | : Corrosive to metals |
| Skin Corr. | : Skin corrosion |
| Skin Irrit. | : Skin irritation |
| STOT RE | : Specific target organ toxicity - repeated exposure |
| STOT SE | : Specific target organ toxicity - single exposure |

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

Further information

Classification of the mixture:

|| Skin Corr. 1B H314

Classification procedure:

Based on product data or assessment

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



HD3

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 26.11.2017 |
| 1.0 | 13.06.2018 | 103000008397 | Country / Language: GB / EN(GB) |

| | | |
|-------------------|------|-------------------------------------|
| Eye Dam. 1 | H318 | Based on product data or assessment |
| Aquatic Acute 1 | H400 | Calculation method |
| Aquatic Chronic 2 | H411 | Calculation method |

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.