

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

1.1. Product identifier

Product form : Mixture
 Product name : EAA09-B

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

1.2.1. Relevant identified uses

Main use category : Professional use
 Use of the substance/mixture : Hardener (Crosslinker)

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Sidec
 Industrieweg 10
 2490 Balen - BELGIE
 T +32 14 81 50 01
safety@sidec.be - www.sidec.eu

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
Belgium	Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+32 70 245 245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral) H302
 Skin Corr. 1B H314
 Eye Dam. 1 H318
 Skin Sens. 1 H317
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

Full text of H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated; 1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether; 3-aminopropyl-diethylamine; benzylic alcohol

Hazard statements (CLP) :

H302 - Harmful if swallowed.
 H314 - Causes severe skin burns and eye damage.
 H317 - May cause an allergic skin reaction.
 H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P310 - Immediately call a POISON CENTER or doctor/physician.
 P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

EAA09-B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

clothing. Rinse skin with water/shower.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391 - Collect spillage.

2.3. Other hazards

Other hazards not contributing to the classification : This material or its emissions may affect the nervous system.

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]
Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated	(CAS-No.) 1173092-74-4	50 – 100	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether	(CAS-No.) 84144-79-6 (EC-No.) 282-199-6	25 – 50	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3-aminopropyldiethylamine	(CAS-No.) 104-78-9 (EC-No.) 203-236-4 (EC Index-No.) 612-062-00-1	3 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Skin Sens. 1, H317
benzylic alcohol	(CAS-No.) 100-51-6 (EC-No.) 202-859-9 (EC Index-No.) 603-057-00-5 (REACH-no) 01-2119492630-38	1 – 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Get medical advice/attention if you feel unwell. Give oxygen or artificial respiration as needed. Cardiac arrest: perform resuscitation.
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse with plenty of water. Get medical advice/attention.
- First-aid measures after eye contact : Get immediate medical advice/attention. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Vomiting: prevent asphyxia/aspiration pneumonia.

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

- Symptoms/effects after inhalation : Corrosive to eyes, respiratory system and skin. Impairment of the nervous system. May cause drowsiness or dizziness. Headache. Nausea. Respiratory difficulties. Impaired memory.
- Symptoms/effects after skin contact : Burns. Impairment of the nervous system. Headache. Nausea. Dizziness. Difficulty in breathing.
- Symptoms/effects after eye contact : Risk of damage to eyes. Can cause blindness.
- Symptoms/effects after ingestion : Burns. May perforate the oesophagus or the digestive tract.

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

Treat symptomatically. Notes to physician. If skin irritation or rash occurs: administration of corticoid ointment.

EAA09-B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Sand/earth. Powder.
Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx). Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Avoid contact with skin. [In case of inadequate ventilation] wear respiratory protection. Complete protective clothing.
Other information : Prevent fire fighting water from entering the environment. Prevent spreading in sewers. Dyke fire control water for later disposal and do not scatter the material.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area.

6.1.1. For non-emergency personnel

Protective equipment : Face-shield. Gloves. Wear gas tight chemically protective clothing in combination with self contained breathing apparatus.
Emergency procedures : Mark the danger area. Large spills/in confined spaces: consider evacuation.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak without risks if possible.
Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

6.4. Reference to other sections

For further information refer to section 13. See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Provide local exhaust or general room ventilation. Do not eat, drink or smoke when using this product. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hygiene measures : Take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : The floor of the depot should be impermeable and designed to form a water-tight basin.
Storage conditions : Keep only in original container.
Incompatible products : Do not bring in contact with acids.
Information on mixed storage : Keep away from (strong) acids.
Storage area : Store in a well-ventilated place. Store in a dry, cool area.

7.3. Specific end use(s)

Hardener.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate ventilation to minimize dust concentrations.
Personal protective equipment : Safety glasses. Insulated gloves.

EAA09-B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hand protection	: Chemically resistant protective gloves. Gloves must be replaced after each use and whenever signs of wear or perforation appear. Recommended materials. Neoprene. Polyvinylalcohol (PVA). Impermeable protective gloves. Polyvinylchloride (PVC)
Eye protection	: Face shield. Safety glasses
Skin and body protection	: Wear suitable protective clothing. Complete protective clothing. Wear impervious rubber safety shoes
Respiratory protection	: In case of inadequate ventilation wear respiratory protection.



Other information : Discard contaminated leather articles. Wash hands and face before break and at end of works.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow.
Odour	: ammonia odour.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 200 °C
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0,01 hPa
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1 g/cm ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: ≈ 400 mPa·s
Explosive properties	: Not applicable.
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

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 additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

reactive metals (Al, K, Zn ...). Organic acids. hydroxyl compounds. Mineral acids. Sodium hypochlorite. Peroxides. Oxidizing agents and acids.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. nitric acid. Ammonia. Aldehydes. hydrocarbons.

EAA09-B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May perforate the oesophagus or the digestive tract

ATE CLP (oral)	500 mg/kg bodyweight
----------------	----------------------

Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated (1173092-74-4)

LD50 oral rat	300 – 1000 mg/kg
---------------	------------------

1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether (84144-79-6)

LD50 oral rat	300 ml/kg (experimental value, OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method))
---------------	---

benzylic alcohol (100-51-6)

LD50 oral rat	1620 mg/kg bodyweight
LD50 dermal rabbit	2000 mg/kg

Skin corrosion/irritation : Causes severe skin burns.
When absorbed by skin: Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination, Difficulty in breathing

Serious eye damage/irritation : Causes serious eye damage.
Can cause blindness

Respiratory or skin sensitisation : May cause an allergic skin reaction.
May generate

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified
May produce :
Headache
Nausea
Dizziness
Mental confusion
Breathing difficulties.

EAA09-B

Viscosity, kinematic	≈ 400 mm ² /s
----------------------	--------------------------

SECTION 12: Ecological information

12.1. Toxicity

1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether (84144-79-6)

LC50 fish 1	0,66 mg/l
LC50 other aquatic organisms 1	14 mg/l OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
EC50 other aquatic organisms 1	66 mg/l OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))

benzylic alcohol (100-51-6)

LC50 fish 1	460 mg/l (Pimephales promelas) (LC50(96h))
LC50 other aquatic organisms 1	10 mg/l (Lepomis macrochirus) (LC50 (96h))
EC50 Daphnia 1	400 mg/l (Daphnia magna (Wasserfloh)) (EC50(24h))
LC50 fish 2	645 mg/l (Goldorfe (orfe)) (LC50(96h))
ErC50 (algae)	770 mg/l (OECD 201: Algae: growth inhibition study, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

3-aminopropyldiethylamine (104-78-9)

Partition coefficient n-octanol/water (Log Pow)	0,123 – 0,36
---	--------------

benzylic alcohol (100-51-6)

Partition coefficient n-octanol/water (Log Pow)	1,1
---	-----

EAA09-B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.4. Mobility in soil

1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether (84144-79-6)

Partition coefficient n-octanol/water (Log Koc) : $\geq 3,55$ OECD Guideline 121 (Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC))

benzylic alcohol (100-51-6)

Surface tension : 39 mN/m (20 °C)

Ecology - soil : No supplementary information available.

12.5. Results of PBT and vPvB assessment

Component

1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyl ether (84144-79-6) : This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

benzylic alcohol (100-51-6) : 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. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Refer to supplier/manufacturer.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

European List of Waste (LoW) code : 08 00 00 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 02 00 - wastes from MFSU of other coatings (including ceramic materials)

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 2735

UN-No. (IMDG) : 2735

UN-No. (IATA) : 2735

UN-No. (ADN) : 2735

UN-No. (RID) : 2735

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AMINES, LIQUID, CORROSIVE, N.O.S.

Proper Shipping Name (IMDG) : AMINES, LIQUID, CORROSIVE, N.O.S.

Proper Shipping Name (IATA) : Amines, liquid, corrosive, n.o.s.

Proper Shipping Name (ADN) : AMINES, LIQUID, CORROSIVE, N.O.S.

Proper Shipping Name (RID) : AMINES, LIQUID, CORROSIVE, N.O.S.

Transport document description (ADR) : UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (), 8, III, (E), ENVIRONMENTALLY HAZARDOUS

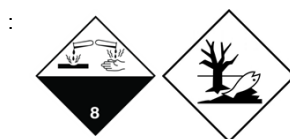
Transport document description (IMDG) : UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8

Danger labels (ADR) : 8



IMDG

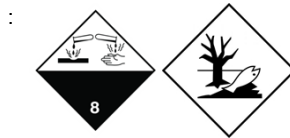
Transport hazard class(es) (IMDG) : 8

Danger labels (IMDG) : 8

EAA09-B

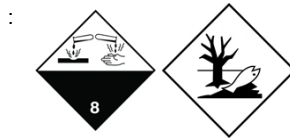
Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



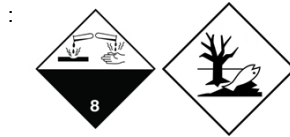
IATA

Transport hazard class(es) (IATA) : 8
Danger labels (IATA) : 8



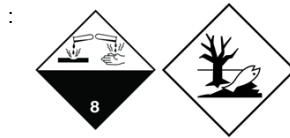
ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C7
Special provisions (ADR) : 274
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions (ADR) : TP1, TP28
Tank code (ADR) : L4BN

EAA09-B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2X
APP code : B

- Transport by sea

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP1, TP28
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A
Properties and observations (IMDG) : Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3
ERG code (IATA) : 8L

- Inland waterway transport

Classification code (ADN) : C7
Special provisions (ADN) : 274
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0
Carriage prohibited (ADN) : No
Not subject to ADN : No

- Rail transport

Classification code (RID) : C7
Special provisions (RID) : 274
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T7

EAA09-B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Portable tank and bulk container special provisions (RID)	: TP1, TP28
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80
Carriage prohibited (RID)	: No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Regulatory reference	: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

Denmark

Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product
-----------------------------------	---

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
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
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Sens. 1	Skin sensitisation, Category 1
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.

EAA09-B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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.