

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

1.1. Product identifier

Product form : Mixture
 Substance name : PA-CLEAR-FILLER-A
 Product group : Blend

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

1.2.1. Relevant identified uses

No additional information available

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/Antigifcentrum 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]

Eye Irrit. 2 H319
 Skin Sens. 1 H317
 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) :

Warning

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation.
 H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 - Wash hands, forearms and face thoroughly after handling.
 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/hearing protection.
 P302+P352 - IF ON SKIN: Wash with plenty of water.

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

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SECTION 3: Composition/information on ingredients

3.1. Substances

Name : PA-CLEAR-FILLER-A

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	(CAS-No.) 136210-32-7 (EC-No.) 412-060-9 (EC Index-No.) 607-350-00-9 (REACH-no) 01-0000015937-58-0000, 01-0000015937-58-0001	40 – 60	Skin Sens. 1, H317 Aquatic Chronic 3, H412
Aspartic Acid, N,N'-(methylenedi-4,1-cyclohexanediy)bis-, 1,1',4,4'-tetraethyl ester	(CAS-No.) 136210-30-5 (EC-No.) 429-270-1 (EC Index-No.) 607-521-00-8 (REACH-no) 01-0000017556-64	15 – 25	Skin Sens. 1, H317 Aquatic Chronic 3, H412
Propylene Carbonate	(CAS-No.) 108-32-7 (EC-No.) 203-572-1 (EC Index-No.) 607-194-00-1 (REACH-no) 01-2119537232-48	10 – 20	Eye Irrit. 2, H319
Amorphous Silica	(CAS-No.) 67762-90-7 (REACH-no) 01-2119379499-16	4 – 10	Not classified

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Remove contaminated clothes.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash off immediately with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects after inhalation	: No observed effects.
Symptoms/effects after skin contact	: No observed effects.
Symptoms/effects after eye contact	: No observed effects.
Symptoms/effects after ingestion	: No observed effects.
Chronic symptoms	: skin irritation and erythema.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Foam. extinguishing powder.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Nitrogen oxides. carbon oxides (CO and CO₂).

5.3. Advice for firefighters

Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing. Wear fire/flame resistant/retardant clothing.
Other information	: Prevent fire fighting water from entering the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate air ventilation. Keep public away.

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6.1.1. For non-emergency personnel

- Protective equipment : protective clothing.
Emergency procedures : No naked flames. Mark the danger area. Take off immediately all contaminated clothing and wash it before reuse.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

- For containment : Contain leaking substance, pump over in suitable containers. Stop leak if safe to do so. Contain the spilled material by bunding (product is hazardous for the environment).
Methods for cleaning up : Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

Concerning disposal elimination after cleaning, see section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Remove contaminated clothes.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed and dry. Store in a well-ventilated place.
Heat and ignition sources : Keep away from : All heat sources.
Information on mixed storage : Keep away from (strong) acids. Strong bases.
Storage area : Keep in a cool place. Store in a dry place. Store in a well-ventilated place. The floor of the depot should be impermeable and designed to form a water-tight basin. Keep container tight closed. meet the legal requirements.
Special rules on packaging : closing. correctly labelled. dry. meet the legal requirements. Secure fragile packagings in solid containers.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Amorphous Silica (67762-90-7)		
Belgium	Limit value (mg/m ³)	0,1 mg/m ³ 2 mg/m ³ 10 mg/m ³
France	VME (mg/m ³)	0,1 mg/m ³
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,075 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ 4 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³

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DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	112 mg/m ³
Long-term - systemic effects, dermal	4 mg/kg bw/day
Long-term - systemic effects, inhalation	28 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	1,4 mg/kg bw/day
Acute - systemic effects, inhalation	4,8 mg/m ³
Acute - systemic effects, oral	1,4 mg/kg bw/day
Long-term - systemic effects, oral	1,4 mg/kg bw/day
Long-term - systemic effects, inhalation	4,8 mg/m ³
Long-term - systemic effects, dermal	1,4 mg/kg bw/day
PNEC (Water)	

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PNEC aqua (freshwater)	0,00013 mg/l
PNEC aqua (marine water)	0,000013 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,21 mg/kg dwt
PNEC sediment (marine water)	0,02 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	31,1 mg/l

8.2. Exposure controls

Personal protective equipment	: Protective goggles. Gloves.
Materials for protective clothing	: Wear suitable protective clothing
Hand protection	: Chemical resistant gloves (according to European standard EN 374 or equivalent). Wear suitable gloves. Polyethylene. eval. Breakthrough time : refer to the recommendations of the supplier
Eye protection	: Safety glasses. Avoid contact with skin and eyes. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure
Skin and body protection	: Long sleeved protective clothing. Complete protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous.
Colour	: No data available
Odour	: No data available
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	: > 300 °C (1013 hPa, EU method A.2: Boiling point)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 0 %
Other properties	: Slightly volatile.

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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

No additional information available

10.6. Hazardous decomposition products

On heating/burning: release of harmful gases/vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

PA-CLEAR-FILLER-A	
LD50 oral rat	> 2000 mg/kg bodyweight (EU method B.1 tris: Acute oral toxicity - Method for determination of acute toxicity class, Rat, Male / female, Read-across, Oral)
LD50 dermal rat	> 2000 mg/kg bodyweight (EU method B.3: Acute toxicity (dermal), 24 h, Rat, Male / female, Read-across, Dermal)
LC50 inhalation rat (mg/l)	> 4,224 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / Female, Read-across, Inhalation (aerosol))

Aspartic Acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester (136210-30-5)	
LD50 oral rat	> 2000 mg/kg bodyweight (EU method B.1 tris: Acute oral toxicity - Method for determination of acute toxicity class, Rat, Male / female, Read-across, Oral)
LD50 dermal rat	> 2000 mg/kg bodyweight (EU method B.3: Acute toxicity (dermal), 24 h, Rat, Male / female, Read-across, Dermal)
LC50 inhalation rat (mg/l)	> 4,224 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / Female, Read-across, Inhalation (aerosol))

Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane (136210-32-7)	
LD50 oral rat	> 2000 mg/kg bodyweight (Directive 67/548 / EEC, Annex V, B.1.)
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 4,224 mg/l air Test guideline OECD 403

Propylene Carbonate (108-32-7)	
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / Female, Experimental Value, Oral)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24h, Rabbit, Male / Female, Experimental Value, Dermal)

Amorphous Silica (67762-90-7)	
LD50 oral rat	> 5000 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
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
Potential adverse human health effects and symptoms	: Not expected to be an irritant to eyes or skin. Non-toxic by inhalation. Non-toxic if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - air : None. Fluorinated greenhouse gases - (EC) No 517/2014.

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Ecology - water : Harmful to aquatic organisms.

PA-CLEAR-FILLER-A	
LC50 fish 1	66 mg/l (OECD 203: Fish: acute toxicity study, 96 h, Danio rerio, Static system, Fresh water, Read-across, GLP)
EC50 Daphnia 1	88,6 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)
ErC50 (algae)	> 1,319 mg/l (OECD 201: Algae: growth inhibition study, 48 h, Scenedesmus subspicatus, Static system, Fresh water, Read-across, GLP)

Aspartic Acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester (136210-30-5)	
LC50 fish 1	66 mg/l (OECD 203: Fish: acute toxicity study, 96 h, Danio rerio, Static system, Fresh water, Read-across, GLP)
EC50 Daphnia 1	88,6 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)
ErC50 (algae)	> 1,319 mg/l (OECD 201: Algae: growth inhibition study, 48 h, Scenedesmus subspicatus, Static system, Fresh water, Read-across, GLP)

Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane (136210-32-7)	
LC50 fish 1	66 mg/l (OECD 203: Fish: acute toxicity study, 96 h, Danio rerio, Static system, Fresh water, Read-across, GLP)
EC50 Daphnia 1	88,6 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)
ErC50 (algae)	> 1,319 mg/l (OECD 201: Algae: growth inhibition study, 48 h, Scenedesmus subspicatus, Static system, Fresh water, Read-across, GLP)
NOEC chronic crustacea	0,01 mg/l (Directive 67/548 / EEC, Annex V, C.20., Daphnia magna, 21d)

Propylene Carbonate (108-32-7)	
LC50 fish 1	5300 mg/l (96 h, Leuciscus idus, Static system)
EC50 Daphnia 1	> 1000 mg/l (48 h, Daphnia magna, GLP)

Amorphous Silica (67762-90-7)	
LC50 fish 1	> 10000 mg/l
EC50 Daphnia 1	> 1000 mg/l
ErC50 (algae)	> 10000 mg/l

12.2. Persistence and degradability

PA-CLEAR-FILLER-A	
Persistence and degradability	Not readily biodegradable.

Aspartic Acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester (136210-30-5)	
Persistence and degradability	Not readily biodegradable.

Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane (136210-32-7)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	13 % (28 d, OECD 301 F)

Propylene Carbonate (108-32-7)	
Biochemical oxygen demand (BOD)	0,046 g O ₂ /g substance
Chemical oxygen demand (COD)	1,29 g O ₂ /g substance

12.3. Bioaccumulative potential

PA-CLEAR-FILLER-A	
BCF other aquatic organisms 1	1872 (Other, Calculated Value)
Bioaccumulative potential	Bioaccumulative potential.

Aspartic Acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester (136210-30-5)	
BCF other aquatic organisms 1	1872 (Other, Calculated Value)
Partition coefficient n-octanol/water (Log Pow)	5,16 (Calculated, KOWWIN, 20 ° C)
Bioaccumulative potential	Bioaccumulative potential.

Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane (136210-32-7)	
Bioconcentration factor (BCF REACH)	8,228 (calculated value)
Bioaccumulative potential	Bioaccumulative potential.

Propylene Carbonate (108-32-7)	
Partition coefficient n-octanol/water (Log Pow)	-0,48 – -0,41 (Experimental value)
Bioaccumulative potential	No bioaccumulation expected.

12.4. Mobility in soil

PA-CLEAR-FILLER-A	
Surface tension	63,91 mN/m (19.7 ° C, 89.97 mg / l, OECD 115: Surface tension of aqueous solutions)
Partition coefficient n-octanol/water (Log Koc)	4,2 – 5,1 (log Koc, EU-methode C.19, Read-across, GLP)

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PA-CLEAR-FILLER-A	
Ecology - soil	Low mobility (soil).
Aspartic Acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester (136210-30-5)	
Surface tension	63,91 mN/m (19.7 ° C, 89.97 mg / l, OECD 115: Surface tension of aqueous solutions)
Partition coefficient n-octanol/water (Log Koc)	4,2 – 5,1 (log Koc, EU-methode C.19, Read-across, GLP)
Ecology - soil	Low mobility (soil).
Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane (136210-32-7)	
Partition coefficient n-octanol/water (Log Koc)	4,2 – 5,1 (log Koc, EU-methode C.19, Read-across, GLP)
Propylene Carbonate (108-32-7)	
Ecology - soil	No supplementary information available.

12.5. Results of PBT and vPvB assessment

PA-CLEAR-FILLER-A	
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	
Aspartic Acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester (136210-30-5)	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
Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane (136210-32-7)	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
Propylene Carbonate (108-32-7)	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
Amorphous Silica (67762-90-7)	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. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

European List of Waste (LoW) code 15 01 10* - packaging containing residues of or contaminated by dangerous substances
16 03 05* - organic wastes containing dangerous substances

SECTION 14: Transport information

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

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

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14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

14.5. Environmental hazards

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

14.6. Special precautions for user

Special transport precautions : Do not allow water (or moist air) contact with this material, Keep away from food and drink

- Overland transport

Transport regulations (ADR) : Not subject

- Transport by sea

Transport regulations (IMDG) : Not subject

- Air transport

Transport regulations (IATA) : Not subject

- Inland waterway transport

Transport regulations (ADN) : Not subject

Carriage prohibited (ADN) : No

Not subject to ADN : No

- Rail transport

Transport regulations (RID) : Not subject

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

No REACH Annex XVII restrictions

VOC content : 0 %

15.1.2. National regulations

Germany

Regulatory reference : WGK 1, Slightly hazardous to water

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

TA Luft : 5.2.5 Organic Substances. Class I

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark

Class for fire hazard : Class III-1

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Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful 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.