

# Safety Data Sheet - Europe (EU)

Astro HPE Sealant

UIC of product-type: AFHPE

Revision 16 - 7th February 2023



According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product form** : Mixture  
**Product Code** : AFHPESG  
**Product Name** : Astro HPE  
**UFI** : 8CC0-K0DE-S00A-09QW  
**Type of product** : Adhesives, sealants  
**Product group** : Trade product

### 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  
**Industrial/Professional use spec** : For professional use only  
**Use of the substance/mixture** : Adhesives, sealants

#### 1.2.2 Uses advised against

No additional information available

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

<b>Company Name</b> : Astroflame (Fireseals) LTD Unit 8 , I.O Centre Stephenson Road Segensworth Fareham PO15 5RU United Kingdom  <b>Tel Number</b> : (0) 44 1329 844500  <b>Email</b> : sales@astroflame.com	<b>Importer</b> : Hofstee Preventie Service V.O.F Plesmanstraat 53 7903 BG Hoozevee  <b>Tel Number</b> : 0031 593331776  <b>Email</b> : info@hpsmail.nl
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### 1.4. Emergency telephone number

**Tel Number** : (0) 44 1329 844500 Language: English - Office hours 8am to 5:30pm GMT  
 0031 593331776 Language: Language: English/Dutch

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

**Serious eye damage/eye irritation, Category 2** : H319  
**Reproductive toxicity, Category 2** : H361  
**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**

Suspected of damaging fertility or the unborn child. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

**2.2. Label elements**

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

**Hazard pictograms (CLP)** :    
GHS07 GHS08

**Signal word (CLP)** :Warning

**Contains** :Melamine

**Hazard statements (CLP)** :H319 - Causes serious eye irritation.  
H361 - Suspected of damaging fertility or the unborn child.  
H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements (CLP)** : P201 - Obtain special instructions before use.  
P280 - Wear protective clothing, eye protection, face protection.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.

**EUH-statements** :EUH208 - Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one(2634-33-5), reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

**2.3. Other hazards**

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

Component	
Melamine (108-78-1)	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 %

Component	
Melamine (108-78-1)	The substance is not 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

**Section 3: Composition/information on ingredients**

**3.1. Substances**

Not applicable

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminium Hydroxide	CAS-No.: 21645-51-2 EC-No.: 244-492-7 REACH-no: 01-2119529246-39	10 – 30	Not classified
Melamine substance listed as REACH Candidate	CAS-No.: 108-78-1 EC-No.: 203-615-4	1 – 10	Repr. 2, H361
Cellulose substance with a Community workplace exposure limit	-	1 – 10	Not classified
Alkylphenol polypropylene glycol ether	CAS-No.: 9064-15-7 EC-No.: 696-008-2	1 – 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	0.008	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	0.001	Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Oral), H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	( 0.05 ≤ C ≤ 100) Skin Sens. 1, H317
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	( 0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317 ( 0.06 ≤ C < 0.6) Skin Irrit. 2, H315 ( 0.06 ≤ C < 0.6) Eye Irrit. 2, H319 ( 0.6 ≤ C ≤ 100) Skin Corr. 1C, H314 ( 0.6 ≤ C ≤ 100) Eye Dam. 1, H318

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

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## Section 4: First aid measures

### 4.1. Description of first aid measures

<b>First-aid measures general</b>	: IF exposed or concerned: Get medical advice/attention.
<b>First-aid measures after inhalation</b>	: Remove person to fresh air and keep comfortable for breathing.
<b>First-aid measures after skin contact</b>	: Wash skin with plenty of water.
<b>First-aid measures after eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>First-aid measures after ingestion</b>	: Call a poison center or a doctor if you feel unwell.

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

<b>Symptoms/effects after eye contact</b>	: Eye irritation.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## Section 5: Fire-Fighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	: Water spray. Dry powder. Foam. Carbon dioxide.
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### 5.2. Special hazards arising from the substance or mixture

**Hazardous decomposition products in case of fire** : Toxic fumes may be released.

### 5.3. Advice for fire - fighters

<b>Protection during firefighting</b>	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

<b>Emergency procedures</b>	: Ventilate spillage area. Avoid contact with skin and eyes.
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#### 6.1.2. For non-emergency personnel

<b>Protective equipment</b>	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Toxic to aquatic life with long lasting effects.

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

**6.3. Methods and materials for containment and cleaning up**

- Methods for cleaning up** : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information** : Dispose of materials or solid residues at an authorized site.

**6.4. Reference to other sections**

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

- Precautions for safe handling** : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes.
- Hygiene measures** : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

**7.2. Conditions for safe storage, including any incompatibilities**

- Storage conditions** : Store locked up. Store in a well-ventilated place. Keep cool.

**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**

<b>Cellulose</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	6 mg/m <sup>3</sup> General dust limiting value

**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

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

**8.2. Exposure controls**

**8.2.1. Appropriate engineering controls**

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

**8.2.2. Personal protection equipment**

**Personal protective equipment:**

Dust formation: dust mask. Gloves.

**Personal protective equipment symbol(s):**



**8.2.2.1. Eye and face protection**

**Eye protection:**

Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses			EN 166

**8.2.2.2. Skin protection**

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Vinyl, Nitrile rubber (NBR), Chloroprene rubber (CR)	2 (> 30 minutes)			EN ISO 374-1

**8.2.2.3. Respiratory protection**

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

**8.2.2.4. Thermal hazards**

No additional information available

**8.2.3. Thermal hazards**

**Environmental exposure controls:**

Avoid release to the environment.

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	: Liquid
<b>Colour</b>	: Grey.
<b>Appearance</b>	: Paste.
<b>Odour</b>	: Not available
<b>Odour threshold</b>	: Not available
<b>Melting point</b>	: Not applicable
<b>Freezing point</b>	: Not available
<b>Boiling point</b>	: Not available
<b>Flammability</b>	: Non flammable.
<b>Explosive limits</b>	: Not available
<b>Lower explosion limit</b>	: Not available
<b>Upper explosion limit</b>	: Not available
<b>Flash point</b>	: Not available
<b>Auto-ignition temperature</b>	: Not available
<b>Decomposition temperature</b>	: Not available
<b>pH</b>	: 5 – 9
<b>Viscosity, kinematic</b>	: Not available
<b>Solubility</b>	: Not available
<b>Partition coefficient n-octanol/water (Log Kow)</b>	: Not available
<b>Vapour pressure</b>	: Not available
<b>Vapour pressure at 50°C</b>	: Not available
<b>Density</b>	: Not available
<b>Relative density</b>	: 1.3 – 1.4
<b>Relative vapour density at 20°C</b>	: Not available
<b>Particle characteristics</b>	: 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

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical Stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.



According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Oxidizing agent. Strong acids.

#### 10.6. Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 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

#### Aluminium Hydroxide (21645-51-2)

LD50 oral rat	> 2000 mg/kg bodyweight
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LC50 Inhalation - Rat	> 2.3 mg/l
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#### Melamine (108-78-1)

LC50 Inhalation - Rat	> 5.19 mg/l air
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**Skin corrosion/irritation** : Not classified  
pH: 5 – 9

#### Aluminium Hydroxide (21645-51-2)

pH	9
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**Serious eye damage/irritation** : Causes serious eye irritation.  
pH: 5 – 9

#### Aluminium Hydroxide (21645-51-2)

pH	9
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**Respiratory or skin sensitisation** : Not classified

**Germ cell mutagenicity** : Not classified

**Carcinogenicity** : Not classified

**Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

#### Aluminium Hydroxide (21645-51-2)

NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight
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**STOT-single exposure** : Not classified

**STOT-repeated exposure** : Not classified

**Aspiration hazard** : Not classified

#### Cellulose

Viscosity, kinematic	Not applicable
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According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Aluminium Hydroxide (21645-51-2)</b>	
Viscosity, kinematic	Not applicable

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

#### 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 - general** : Harmful to aquatic life with long lasting effects.  
**Hazardous to the aquatic environment, short-term (acute)** : Not classified  
**Hazardous to the aquatic environment, long-term (chronic)** : Harmful to aquatic life with long lasting effects.  
**Not rapidly degradable**

<b>Melamine (108-78-1)</b>	
LC50 - Fish [1]	> 3000 mg/l
EC50 - Crustacea [1]	200 mg/l
EC50 96h - Algae [1]	325 mg/l
LOEC (chronic)	> 11 mg/l
NOEC (chronic)	> 11 mg/l
NOEC chronic fish	≥ 5.1 mg/l

### 12.2. Persistence and Degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

<b>Astro HPE Sealant</b>	
Ecology - soil	Expected to be highly mobile in soil.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Regional legislation (waste)</b>	: Disposal must be done according to official regulations.
<b>Waste treatment methods</b>	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

## Section 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 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)

##### **REACH Candidate List (SVHC)**

Contains substance(s) listed on the REACH Candidate List in concentrations  $\geq 0.1\%$  or SCL: Melamine (EC 203-615-4, CAS 108-78-1)

##### **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)

##### **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 no 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)

#### 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

### Indication of changes:

Composition/information on ingredients.

Indication of changes			
Section	Changed item	Change	Comments
3.2	Additional information	Modified	Melamine added to Candidate List

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Abbreviations and acronyms:</b>	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Full text of H- and EUH-statements:</b>	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
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
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one(2634-33-5), reaction mass of 5-chloro-2-methyl- 2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H361	Suspected of damaging fertility or the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A

**The classification complies with** : ATP 12

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