

# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878



## FIXAPOX B

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

#### 1.1. Product identifier

Product name : FIXAPOX B  
Registration number REACH : Not applicable (mixture)  
Product type REACH : Mixture

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

##### 1.2.1 Relevant identified uses

Epoxy resin hardener  
Wood: cleaning product

##### 1.2.2 Uses advised against

No uses advised against known

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

##### Supplier of the safety data sheet

Novatio\*  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 25 76 40  
☎ +32 14 22 02 66  
info@novatio.be  
\*NOVATIO is a registered trademark of Novatech International N.V.

##### Manufacturer of the product

Novatech International N.V.  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
☎ +32 14 85 97 38  
info@novatech.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :  
+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Skin Sens.	category 1	H317: May cause an allergic skin reaction.
Acute Tox.	category 4	H332: Harmful if inhaled.
Acute Tox.	category 4	H312: Harmful in contact with skin.
Acute Tox.	category 4	H302: Harmful if swallowed.
Skin Corr.	category 1B	H314: Causes severe skin burns and eye damage.
Eye Dam.	category 1	H318: Causes serious eye damage.
Aquatic Chronic	category 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements



Contains: benzyl alcohol; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; benzyldimethylamine.

**Signal word** Danger

##### H-statements

H317 May cause an allergic skin reaction.  
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H412 Harmful to aquatic life with long lasting effects.

##### P-statements

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)  
Technische Schoolstraat 43 A, B-2440 Geel  
<http://www.big.be>  
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P280	Wear protective gloves, protective clothing and eye protection/face protection.
P260	Do not breathe vapours/mist.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

## 2.3. Other hazards

No other hazards known

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
benzyl alcohol 01-2119492630-38	100-51-6 202-859-9	25%<C<50%	Acute Tox. 4; H332 Acute Tox. 4; H302	(1)(2)(10)	Constituent	
3-aminomethyl-3,5,5-trimethylcyclohexylamine 01-2119514687-32	2855-13-2 220-666-8	25%<C<50%	Skin Sens. 1; H317 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	(1)(10)	Constituent	
benzyl dimethylamine 01-2119529232-48	103-83-3 203-149-1	2.5%<C<10%	Flam. Liq. 3; H226 Acute Tox. 3; H331 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	(1)(10)	Constituent	

- (1) For H- and EUH-statements in full: see heading 16  
(2) Substance with a Community workplace exposure limit  
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

#### After inhalation:

Remove victim into fresh air. Immediately consult a doctor/medical service.

#### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately for 30 minutes with (lukewarm) water. Cut clothing; never remove burnt clothing from the wound. Do not give any pain medication. Consult a doctor/medical service.

#### After eye contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. Immediately consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

#### 4.2.1 Acute symptoms

##### After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Corrosion of the upper respiratory tract.

##### After skin contact:

Caustic burns/corrosion of the skin.

##### After eye contact:

Corrosion of the eye tissue.

##### After ingestion:

Burns to the gastric/intestinal mucosa. Possible esophageal perforation.

#### 4.2.2 Delayed symptoms

No effects known.

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

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If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.  
Major fire: Class B foam (not alcohol-resistant).

#### 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.  
Major fire: Water; risk of puddle expansion.

### 5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it. Heat exposure: dilute toxic gas/vapour with water spray.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Face shield (EN 166). Corrosion-proof suit (EN 14605). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

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

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Face shield (EN 166). Corrosion-proof suit (EN 14605).

#### Suitable protective clothing

See heading 8.2

### 6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

### 6.3. Methods and material for containment and cleaning up

Take up liquid spill into inert 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

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Keep container tightly closed. Do not discharge the waste into the drain.

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

#### 7.2.1 Safe storage requirements:

Meet the legal requirements. Store in a cool area. Keep container in a well-ventilated place. Provide for a tub to collect spills. Keep only in the original container. Keep out of direct sunlight. Unauthorized persons are not admitted. Meet the legal requirements.

#### 7.2.2 Keep away from:

Heat sources, (strong) acids, (strong) bases.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

##### Germany

Benzylalkohol	Time-weighted average exposure limit 8 h (TRGS 900)	5 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	22 mg/m <sup>3</sup>

##### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

Product name	Test	Number
Benzyl Alcohol	OSHA	2009

#### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

#### 8.1.4 Threshold values

##### DNEL/DMEL - Workers

###### benzyl alcohol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	22 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	110 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	8 mg/kg bw/day	
	Acute systemic effects dermal	40 mg/kg bw/day	

###### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	0.073 mg/m <sup>3</sup>	
	Acute local effects inhalation	0.073 mg/m <sup>3</sup>	

###### benzyl dimethylamine

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	4.9 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	9.9 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1.4 mg/kg bw/day	
	Acute local effects dermal	2.8 mg/kg bw/day	

##### DNEL/DMEL - General population

###### benzyl alcohol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	5.4 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	27 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	4 mg/kg bw/day	
	Acute systemic effects dermal	20 mg/kg bw/day	
	Long-term systemic effects oral	4 mg/kg bw/day	
	Acute systemic effects oral	20 mg/kg bw/day	

###### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects oral	0.526 mg/kg bw/day	

###### benzyl dimethylamine

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.87 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	1.74 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.5 mg/kg bw/day	
	Acute systemic effects dermal	1 mg/kg bw/day	
	Long-term systemic effects oral	0.25 mg/kg bw/day	
	Acute systemic effects oral	0.5 mg/kg bw/day	

##### PNEC

###### benzyl alcohol

Compartments	Value	Remark
Fresh water	1 mg/l	
Fresh water (intermittent releases)	2.3 mg/l	
Marine water	0.1 mg/l	
STP	39 mg/l	
Fresh water sediment	5.27 mg/kg sediment dw	
Marine water sediment	0.527 mg/kg sediment dw	
Soil	0.456 mg/kg soil dw	

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## 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Compartments	Value	Remark
Fresh water	0.06 mg/l	
Fresh water (intermittent releases)	0.23 mg/l	
Marine water	0.006 mg/l	
STP	3.18 mg/l	
Fresh water sediment	5.784 mg/kg sediment dw	
Marine water sediment	0.578 mg/kg sediment dw	
Soil	1.121 mg/kg soil dw	

## benzylidimethylamine

Compartments	Value	Remark
Fresh water	0.005 mg/l	
Fresh water (intermittent releases)	0.013 mg/l	
Salt water	0 mg/l	
STP	534 mg/l	
Fresh water sediment	0.071 mg/kg sediment dw	
Marine water sediment	0.007 mg/kg sediment dw	
Soil	0.011 mg/kg soil dw	

### 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

#### b) Hand protection:

Protective gloves against chemicals (EN 374).

#### c) Eye protection:

Face shield (EN 166).

#### d) Skin protection:

Corrosion-proof clothing (EN 14605).

### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

Physical form	Liquid
Odour	Amine-like odour
Odour threshold	No data available in the literature
Colour	Yellow
Particle size	Not applicable (liquid)
Explosion limits	1.2 - 13 vol %
Flammability	Not classified as flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	25 mPa.s ; 25 °C ; EN ISO 3219
Kinematic viscosity	No data available in the literature
Melting point	No data available in the literature
Boiling point	> 200 °C
Relative vapour density	No data available in the literature
Vapour pressure	0.1 hPa ; 20 °C
Solubility	No data available in the literature
Relative density	0.99 ; 23 °C ; DIN EN ISO 2811-1
Absolute density	990 kg/m <sup>3</sup> ; 23 °C
Decomposition temperature	No data available in the literature
Auto-ignition temperature	380 °C
Flash point	> 100 °C
pH	No data available in the literature

### 9.2. Other information

Evaporation rate	No data available in the literature
Explosive properties	Not classified
Oxidising properties	Not classified

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating increases the fire hazard.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

#### Precautionary measures

Keep away from naked flames/heat.

### 10.5. Incompatible materials

(strong) acids, (strong) bases.

### 10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

## SECTION 11: Toxicological information

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

#### 11.1.1 Test results

#### Acute toxicity

##### FIXAPOX B

No (test) data on the mixture available

Classification is based on the relevant ingredients

##### benzyl alcohol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		1620 mg/kg bw/day		Rat (male)	Experimental value	
Dermal	LD50	EPA OTS 798.1100	> 2000 mg/kg		Rabbit (male / female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	> 4.18 mg/l air	4 h	Rat (male / female)	Experimental value	(maximum achievable concentration)

##### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	1030 mg/kg		Rat (male)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Dermal			category 4			Annex VI	
Inhalation (aerosol)	LC50	OECD 403	> 5.01 mg/l	4 h	Rat (male / female)	Experimental value	

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

##### benzyl dimethylamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		579 mg/kg bw		Rat (male)	Experimental value	
Dermal	LD50		1477 mg/kg	24 h	Rabbit (male)	Experimental value	
Inhalation (vapours)	LC50		2.05 mg/l	4 h	Rat (male / female)	Experimental value	

#### Conclusion

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

#### Corrosion/irritation

##### FIXAPOX B

No (test) data on the mixture available

Classification is based on the relevant ingredients

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## benzyl alcohol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405	24 h	24; 48; 72 hours	Rat	Experimental value	
Skin	Slightly irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

Classification of this substance is debatable as it does not correspond to the conclusion from the test

## 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	OECD 405		24 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Corrosive	Draize Test	24 h	24; 72 hours	Rabbit	Experimental value	

## benzyl dimethylamine

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage		24 h	8 days	Rabbit	Experimental value	
Skin	Corrosive	OECD 404	4 h	24 hours	Rabbit	Experimental value	

### **Conclusion**

Causes severe skin burns and eye damage.

Not classified as irritating to the respiratory system

### **Respiratory or skin sensitisation**

#### FIXAPOX B

No (test) data on the mixture available

Classification is based on the relevant ingredients

#### benzyl alcohol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 429			Mouse (female)	Experimental value	
Skin	Not sensitizing	Human observation			Human (male / female)	Experimental value	

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 406			Guinea pig (male)	Experimental value	

#### benzyl dimethylamine

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		48; 72 hours	Guinea pig (male)	Experimental value	

### **Conclusion**

May cause an allergic skin reaction.

Not classified as sensitizing for inhalation

### **Specific target organ toxicity**

#### FIXAPOX B

No (test) data on the mixture available

Judgement is based on the relevant ingredients

#### benzyl alcohol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	Equivalent to OECD 451	400 mg/kg bw/day		No effect	103 weeks (5 days / week)	Rat (male / female)	Experimental value
Dermal								Data waiving
Inhalation (aerosol)	NOAEC	OECD 412	1072 mg/m <sup>3</sup> air		No effect	4 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value

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## 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (drinking water)	NOAEL	OECD 408	60 mg/kg bw/day	Kidney	No effect	13 weeks (daily)	Rat (male / female)	Experimental value
Oral (drinking water)	LOAEL	OECD 408	160 mg/kg bw/day	Kidney	Histopathology	13 weeks (daily)	Rat (male / female)	Experimental value
Dermal								Data waiving
Inhalation (mixture of vapour and aerosol)	LOEC	Subacute toxicity test	18 mg/m <sup>3</sup> air	Nose	Local effects		Rat (male)	Experimental value

## benzyl dimethylamine

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 407	150 mg/kg bw/day		No effect	28 days (1x / day)	Rat (male / female)	Experimental value

### **Conclusion**

Not classified for subchronic toxicity

### **Mutagenicity (in vitro)**

#### FIXAPOX B

No (test) data on the mixture available

Judgement is based on the relevant ingredients

#### benzyl alcohol

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value	
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 473	Chinese hamster ovary (CHO)	No effect	Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value	
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	

#### benzyl dimethylamine

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster lung fibroblasts (V79)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)		Experimental value	

### **Mutagenicity (in vivo)**

#### FIXAPOX B

No (test) data on the mixture available

Judgement is based on the relevant ingredients

#### benzyl alcohol

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Intraperitoneal)	Equivalent to OECD 474	4 dose(s)/24-hour interval	Mouse (male)	Bone marrow	Experimental value

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral)	OECD 474		Mouse (male / female)	Blood	Experimental value

#### benzyl dimethylamine

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral (stomach tube))	Micronucleus test		Mouse (male / female)	Bone marrow	Experimental value

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## Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

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No (test) data on the mixture available

Judgement is based on the relevant ingredients

#### benzyl alcohol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral (stomach tube)	Dose level	Equivalent to OECD 451	400 mg/kg bw/day	103 weeks (5 days / week)	Rat (male / female)	No carcinogenic effect		Experimental value

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Unknown								Data waiving

#### benzyl dimethylamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral (diet)	Dose level	Carcinogenic toxicity study	0.2 %	100 day(s)	Rabbit (male / female)	No carcinogenic effect		Inconclusive, insufficient data

## Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

### FIXAPOX B

No (test) data on the mixture available

Judgement is based on the relevant ingredients

#### benzyl alcohol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL		550 mg/kg bw/day	10 days (gestation, daily)	Mouse	No effect	Foetus	Experimental value
Effects on fertility (Oral (diet))	NOAEL	Developmental toxicity study	≥ 750 mg/kg bw/day		Rat (male / female)	No effect		Read-across

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	> 250 mg/kg bw/day	2 weeks (daily)	Rat	No effect	Foetus	Experimental value
Maternal toxicity (Oral (stomach tube))	NOEL	OECD 414	50 mg/kg bw/day	2 weeks (daily)	Rat	No effect	General	Experimental value
Effects on fertility								Data waiving

#### benzyl dimethylamine

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOEL	OECD 414	150 mg/kg bw/day	14 days (1x / day)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	75 mg/kg bw/day	14 days (1x / day)	Rat	No effect		Experimental value
Effects on fertility								Data waiving

## Conclusion

Not classified for reprotoxic or developmental toxicity

## Toxicity other effects

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No (test) data on the mixture available

## Chronic effects from short and long-term exposure

### FIXAPOX B

Skin rash/inflammation.

## 11.2. Information on other hazards

No evidence of endocrine disrupting properties

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## SECTION 12: Ecological information

### 12.1. Toxicity

#### FIXAPOX B

No (test) data on the mixture available

Classification is based on the relevant ingredients

#### benzyl alcohol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EPA OPP 72-1	460 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	230 mg/l	48 h	Daphnia magna		Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	770 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
	NOEC	OECD 201	310 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic crustacea	NOEC	OECD 211	51 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EU Method C.1	110 mg/l	96 h	Leuciscus idus	Semi-static system	Fresh water	Experimental value; Lethal
Acute toxicity crustacea	EC50	OECD 202	23 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	EC50	EU Method C.3	37 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Cell numbers
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 202	3 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro-organisms	EC10		1120 mg/l	18 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Nominal concentration

#### benzyl dimethylamine

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	37.8 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental value
Acute toxicity crustacea	EC50	EU Method C.2	> 100 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	EU Method C.3	1.34 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
	EC10	EU Method C.3	0.24 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 202	0.789 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro-organisms	EC10	DIN 38412-8	534 mg/l	17 h	Pseudomonas putida	Static system	Fresh water	Growth rate
	EC20	OECD 209	575 mg/l	30 minutes	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

#### Conclusion

Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

#### benzyl alcohol

##### Biodegradation water

Method	Value	Duration	Value determination
Equivalent to OECD 301C	92 % - 96 %; Oxygen consumption	14 day(s)	Experimental value

##### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	15.550 h	1.5E6 /cm <sup>3</sup>	QSAR

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## 3-aminomethyl-3,5,5-trimethylcyclohexylamine

### Biodegradation water

Method	Value	Duration	Value determination
EU Method C.4	8 %; GLP	28 day(s)	Experimental value

### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.90	4.5 h	5E5 /cm <sup>3</sup>	Calculated value

### Half-life water (t1/2 water)

Method	Value	Primary degradation/mineralisation	Value determination
EU Method C.7	> 1 year(s)	Primary degradation	Experimental value

## benzyl dimethylamine

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301C	0 % - 2 %; Oxygen consumption	28 day(s)	Experimental value

### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	1.564 h	1500000 /cm <sup>3</sup>	Calculated value

## Conclusion

### Water

Contains non readily biodegradable component(s)

## 12.3. Bioaccumulative potential

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#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

## benzyl alcohol

### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.01	1.37 l/kg			Estimated value

### Log Kow

Method	Remark	Value	Temperature	Value determination
		1 - 1.1	20 °C	Experimental value

## 3-aminomethyl-3,5,5-trimethylcyclohexylamine

### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.01	1.827 - 3.16		Pisces	Estimated value

### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		0.99	23 °C	Experimental value

## benzyl dimethylamine

### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	2.1 - 22	6 week(s)	Cyprinus carpio	Experimental value

### Log Kow

Method	Remark	Value	Temperature	Value determination
		1.98		Experimental value

## Conclusion

Contains bioaccumulative component(s)

## 12.4. Mobility in soil

### benzyl alcohol

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	1.122 - 1.332	QSAR

## 3-aminomethyl-3,5,5-trimethylcyclohexylamine

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc		2.97	QSAR

## benzyl dimethylamine

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	1.955 - 2.457	Calculated value

## Conclusion

Contains component(s) with potential for mobility in the soil

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## 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

## 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

## 12.7. Other adverse effects

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#### Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

#### Groundwater

Groundwater pollutant

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

##### European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 27\* (separately collected fractions (except 15 01): paint, inks, adhesives and resins containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste.

Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Dispose of small quantities of cured product as household waste. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

#### 13.1.3 Packaging/Container

##### European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR)

#### 14.1. UN number

UN number	2735
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#### 14.2. UN proper shipping name

Proper shipping name	Amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; benzyldimethylamine)
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#### 14.3. Transport hazard class(es)

Hazard identification number	80
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Class	8
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Classification code	C7
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#### 14.4. Packing group

Packing group	II
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Labels	8
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#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
--	----

#### 14.6. Special precautions for user

Special provisions	274
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Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
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### Rail (RID)

#### 14.1. UN number

UN number	2735
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#### 14.2. UN proper shipping name

Proper shipping name	Amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; benzyldimethylamine)
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#### 14.3. Transport hazard class(es)

Hazard identification number	80
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Class	8
-------	---

Classification code	C7
---------------------	----

#### 14.4. Packing group

Packing group	II
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Labels	8
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	274
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Inland waterways (ADN)

<b>14.1. UN number</b>	
UN number	2735
<b>14.2. UN proper shipping name</b>	
Proper shipping name	Amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; benzyldimethylamine)
<b>14.3. Transport hazard class(es)</b>	
Class	8
Classification code	C7
<b>14.4. Packing group</b>	
Packing group	II
Labels	8
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	274
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Sea (IMDG/IMSBC)

<b>14.1. UN number</b>	
UN number	2735
<b>14.2. UN proper shipping name</b>	
Proper shipping name	amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; benzyldimethylamine)
<b>14.3. Transport hazard class(es)</b>	
Class	8
<b>14.4. Packing group</b>	
Packing group	II
Labels	8
<b>14.5. Environmental hazards</b>	
Marine pollutant	-
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	274
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	
Annex II of MARPOL 73/78	Not applicable, based on available data

## Air (ICAO-TI/IATA-DGR)

<b>14.1. UN number</b>	
UN number	2735
<b>14.2. UN proper shipping name</b>	
Proper shipping name	Amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; benzyldimethylamine)
<b>14.3. Transport hazard class(es)</b>	
Class	8
<b>14.4. Packing group</b>	
Packing group	II
Labels	8
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	A3
Special provisions	A803
<b>Passenger and cargo transport</b>	
Limited quantities: maximum net quantity per packaging	0.5 L

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## SECTION 15: Regulatory information

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

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
< 10 %	

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
<ul style="list-style-type: none"> <li>· benzyl alcohol</li> <li>· 3-aminomethyl-3,5,5-trimethylcyclohexylamine</li> <li>· benzyldimethylamine</li> </ul>	<p>Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:</p> <p>(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;</p> <p>(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;</p> <p>(c) hazard class 4.1;</p> <p>(d) hazard class 5.1.</p>	<ol style="list-style-type: none"> <li>1. Shall not be used in: <ul style="list-style-type: none"> <li>— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> <li>— tricks and jokes,</li> <li>— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,</li> </ul> </li> <li>2. Articles not complying with paragraph 1 shall not be placed on the market.</li> <li>3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: <ul style="list-style-type: none"> <li>— can be used as fuel in decorative oil lamps for supply to the general public, and,</li> <li>— present an aspiration hazard and are labelled with H304,</li> </ul> </li> <li>4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).</li> <li>5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: <ol style="list-style-type: none"> <li>a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";</li> <li>b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";</li> <li>c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</li> </ol> </li> <li>6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled H304, intended for supply to the general public.</li> <li>7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'</li> </ol>
<ul style="list-style-type: none"> <li>· benzyldimethylamine</li> </ul>	<p>Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.</p>	<ol style="list-style-type: none"> <li>1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: <ul style="list-style-type: none"> <li>— metallic glitter intended mainly for decoration,</li> <li>— artificial snow and frost,</li> <li>— "whoopee" cushions,</li> <li>— silly string aerosols,</li> <li>— imitation excrement,</li> <li>— horns for parties,</li> <li>— decorative flakes and foams,</li> <li>— artificial cobwebs,</li> <li>— stink bombs.</li> </ul> </li> <li>2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: <p>"For professional users only".</p> </li> <li>3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.</li> <li>4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.</li> </ol>

#### National legislation Belgium

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No data available

#### National legislation The Netherlands

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Waterbezwaarlijkheid	A (3); Algemene Beoordelingsmethodiek (ABM)
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#### National legislation France

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No data available

### National legislation Germany

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WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
<u>benzyl alcohol</u>	
TA-Luft	5.2.5/I
TRGS900 - Risiko der Fruchtschädigung	Benzylalkohol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
Hautresorptive Stoffe	Benzylalkohol; H; Hautresorptiv
<u>3-aminomethyl-3,5,5-trimethylcyclohexylamine</u>	
TA-Luft	5.2.5/I
<u>benzyl dimethylamine</u>	
TA-Luft	5.2.5/I

### National legislation United Kingdom

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No data available

### Other relevant data

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No data available

## 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

## SECTION 16: Other information

### Full text of any H- and EUH-statements referred to under heading 3:

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H412 Harmful to aquatic life with long lasting effects.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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