

# SAFETY DATA SHEET

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



## ANCHOR A

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

#### 1.1. Product identifier

Product name : ANCHOR A  
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

Resin

##### 1.2.2 Uses advised against

No uses advised against

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

##### Supplier of the safety data sheet

TEC7\*  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
✉ +32 14 85 97 38  
info@tec7.be  
\*TEC7 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  
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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.
STOT SE	category 3	H335: May cause respiratory irritation.

#### 2.2. Label elements



Contains: ethylene dimethacrylate; methacrylic acid, monoester with propane-1,2-diol.

Signal word Warning

##### H-statements

H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

##### P-statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear protective gloves, protective clothing and eye protection/face protection.  
P271 Use only outdoors or in a well-ventilated area.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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Dispose of contents/container in accordance with local/regional/national/international regulation.

## 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
ethylene dimethacrylate 01-2119965172-38	97-90-5 202-617-2	5%≤C<20%	Skin Sens. 1; H317 STOT SE 3; H335 STOT SE 3; H335: C≥10%, (CLP Annex VI (ATP 0))	(1)(10)	Constituent	
methacrylic acid, monoester with propane- 1,2-diol 01-2119490226-37	27813-02-1 248-666-3	1%<C<8.5%	Skin Sens. 1; H317 Eye Irrit. 2; H319	(1)(10)	Constituent	
Quartz (SiO2)	14808-60-7 238-878-4	1%≤C<5%	STOT RE 1; H372	(5)(1)(2)	Constituent	
1,1'-(p-tolylimino)dipropen-2-ol 01-2119980937-17	38668-48-3 254-075-1	C<1.25%	Acute Tox. 2; H300 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	(1)	Constituent	
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate 01-2119451093-47	6846-50-0 229-934-9	C<0.5%	Repr. 2; H361 Aquatic Chronic 3; H412	(1)(10)	Constituent	

- (1) For H- and EUH-statements in full: see section 16  
(2) Substance with a Community workplace exposure limit  
(5) This component is physically bound in the product  
(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. In case of respiratory problems, consult a doctor/medical service.

#### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

#### After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. If you feel unwell, 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:

Irritation of the respiratory tract.

##### After skin contact:

No effects known.

##### After eye contact:

No effects known.

##### After ingestion:

No effects known.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

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## 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

Upon combustion: CO and CO2 are formed.

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

No specific fire-fighting instructions required.

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

Gloves (EN 374). Safety glasses (EN 166). Protective clothing (EN 14605 or EN 13034). 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 section 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Safety glasses (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

### 6.2. Environmental precautions

Contain released product.

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

Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See section 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.

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

#### 7.2.1 Safe storage requirements:

Storage temperature: 5 °C - 25 °C. Meet the legal requirements. Store in a cool area. Store in a dry area. Keep container in a well-ventilated place. Keep only in the original container.

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents.

#### 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.

## 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.

##### b) National biological limit values

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

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## 8.1.2 Sampling methods

Product name	Test	Number
2,2,4-Trimethyl-1,3-Pentanediol Diisobutyrate	OSHA	2002

## 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

#### ethylene dimethacrylate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2.45 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1.3 mg/kg bw/day	

#### methacrylic acid, monoester with propane-1,2-diol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	14.7 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	4.2 mg/kg bw/day	

#### 1,1'-(p-tolylimino)dipropyl-2-ol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2.47 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.7 mg/kg bw/day	

#### 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	17.62 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	5 mg/kg bw/day	

### DNEL/DMEL - General population

#### ethylene dimethacrylate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	1.45 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.83 mg/kg bw/day	
	Long-term systemic effects oral	0.83 mg/kg bw/day	

#### methacrylic acid, monoester with propane-1,2-diol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	8.8 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	2.5 mg/kg bw/day	
	Long-term systemic effects oral	2.5 mg/kg bw/day	

#### 1,1'-(p-tolylimino)dipropyl-2-ol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects oral	0.25 mg/kg bw/day	

#### 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	4.35 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	5 mg/kg bw/day	
	Long-term systemic effects oral	5 mg/kg bw/day	

### PNEC

#### ethylene dimethacrylate

Compartment	Value	Remark
Fresh water	0.139 mg/l	
Marine water	0.014 mg/l	
Fresh water (intermittent releases)	0.15 mg/l	
STP	57 mg/l	
Fresh water sediment	1.6 mg/kg sediment dw	
Marine water sediment	0.16 mg/kg sediment dw	
Soil	0.239 mg/kg soil dw	

#### methacrylic acid, monoester with propane-1,2-diol

Compartment	Value	Remark
Fresh water	0.904 mg/l	
Marine water	0.904 mg/l	
Fresh water (intermittent releases)	0.972 mg/l	
Marine water (intermittent releases)	0.972 mg/l	
STP	10 mg/l	
Fresh water sediment	6.28 mg/kg sediment dw	
Marine water sediment	6.28 mg/kg sediment dw	
Soil	0.727 mg/kg soil dw	

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## 1,1'-(p-tolylimino)dipropen-2-ol

Compartment	Value	Remark
Fresh water	0.017 mg/l	
Marine water	0.002 mg/l	
Fresh water (intermittent releases)	0.17 mg/l	
STP	199.5 mg/l	
Fresh water sediment	0.163 mg/kg sediment dw	
Marine water sediment	0.016 mg/kg sediment dw	
Soil	0.023 mg/kg soil dw	

## 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Compartment	Value	Remark
Fresh water	0.014 mg/l	
Marine water	0.001 mg/l	
STP	3 mg/l	
Fresh water sediment	5.29 mg/kg sediment dw	
Marine water sediment	0.529 mg/kg sediment dw	
Soil	1.05 mg/kg soil dw	
Oral	83.3 mg/kg food	

### 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. 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:

Insufficient ventilation: wear respiratory protection.

#### b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Measured breakthrough time	Thickness	Protection index	Remark
nitrile rubber	> 480 minutes	0.5 mm	Class 6	

#### c) Eye protection:

Safety glasses (EN 166).

#### d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

### 8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

Physical form	Paste
Viscosity	Viscous
Odour	Characteristic odour
Odour threshold	No data available in the literature
Colour	Light beige
Particle size	No data available in the literature
Explosion limits	No data available in the literature
Flammability	Not classified as flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available in the literature
Kinematic viscosity	No data available in the literature
Melting point	No data available in the literature
Boiling point	No data available in the literature
Relative vapour density	No data available in the literature
Vapour pressure	No data available in the literature
Solubility	Water ; insoluble
Relative density	1.71 ; 20 °C
Absolute density	1710 kg/m <sup>3</sup> ; 20 °C
Decomposition temperature	No data available in the literature
Auto-ignition temperature	No data available in the literature
Flash point	No data available in the literature
pH	Not applicable (non-soluble in water)

### 9.2. Other information

No data available

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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

Reacts with (strong) oxidizers.

### 10.4. Conditions to avoid

#### Precautionary measures

Keep away from naked flames/heat.

### 10.5. Incompatible materials

Oxidizing agents.

### 10.6. Hazardous decomposition products

Upon combustion: CO and CO<sub>2</sub> are formed.

## 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

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No (test)data on the mixture available

Judgement is based on the relevant ingredients  
ethylene dimethacrylate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		8700 mg/kg		Rat (male / female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation (vapours)	LCL0		> 1 mg/l	6 h - 7 h	Rat (female)	Experimental value	

methacrylic acid, monoester with propane-1,2-diol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Dermal	LD50		> 5000 mg/kg bw	24 h	Rabbit (male)	Experimental value	
Inhalation						Data waiving	

1,1'-(p-tolylimino)dipropen-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 423	25 mg/kg bw - 200 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw/day	24 h	Rat (male / female)	Experimental value	
Inhalation	LC0			8 h	Rat (male / female)	Experimental value	(maximum achievable concentration)

1-isopropyl-2,2-dimethyltrimethylene diisobutylate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 425	> 2000 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rabbit (male / female)	Experimental value	
Inhalation	LCL0		> 5.3 mg/l	6 h	Rat	Experimental value	

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

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No (test)data on the mixture available

Classification is based on the relevant ingredients

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## ethylene dimethacrylate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Draize Test	72 h	24; 48; 72 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Not irritating	Draize Skin Test	24 h	24; 72 hours	Rabbit	Weight of evidence	
Inhalation	Irritating; STOT SE cat.3					Annex VI	

## methacrylic acid, monoester with propane-1,2-diol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	Draize Test		24; 48; 72 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Not irritating	Draize Test	24 h	24; 72 hours	Rabbit	Experimental value	

## 1,1'-(p-tolylimino)dipropyl-2-ol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405	24 h	1; 24; 48; 72; 168 hours	Rabbit	Experimental value	Single treatment with rinsing
Skin	Not irritating	OECD 404	4 h	1; 24; 48; 72; 168 hours	Rabbit	Experimental value	

## 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single treatment
Skin	Not irritating	OECD 404	4 h	1; 24; 48; 72 hours	Rabbit	Experimental value	

### Conclusion

May cause respiratory irritation.  
Not classified as irritating to the skin  
Not classified as irritating to the eyes

### Respiratory or skin sensitisation

#### ANCHOR A

No (test) data on the mixture available  
Classification is based on the relevant ingredients  
ethylene dimethacrylate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Dermal (on the ears)	Sensitizing	OECD 406			Mouse (female)	Experimental value	

## methacrylic acid, monoester with propane-1,2-diol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	Patch test			Human (male / female)	Literature study	
Dermal (on the ears)	Not sensitizing	Equivalent to OECD 429	3 day(s)		Mouse (female)	Experimental value	
Skin	Sensitizing; category 1					Annex VI	

## 1,1'-(p-tolylimino)dipropyl-2-ol

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

## 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

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

### Conclusion

May cause an allergic skin reaction.  
Not classified as sensitizing for inhalation

### Specific target organ toxicity

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Judgement is based on the relevant ingredients

ethylene dimethacrylate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 422	100 mg/kg bw/day		No effect	49 day(s)	Rat (male)	Experimental value
Oral (stomach tube)	NOAEL	OECD 422	300 mg/kg bw/day		No effect		Rat (female)	Experimental value
Dermal	NOAEC local effects		100 mg/kg bw/day	Skin	No effect	78 weeks (daily, 5 days / week)	Mouse (male)	Read-across
Dermal	NOAEC systemic effects		500 mg/kg bw/day	Kidney	No adverse systemic effects	78 weeks (6h / day, 5 days / week)	Mouse (male)	Read-across
Inhalation	NOAEC systemic effects	OECD 413	1232 mg/m <sup>3</sup> air		No adverse systemic effects	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
Inhalation	NOAEC local effects	OECD 413	352 mg/m <sup>3</sup> air		No effect	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value

methacrylic acid, monoester with propane-1,2-diol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 422	300 mg/kg bw		No effect	49 day(s)	Rat (male)	Experimental value
Inhalation	NOAEL	OECD 413	0.35 mg/l		No effect	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value

1,1'-(p-tolylimino)dipropen-2-ol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL systemic effects	OECD 422	40 mg/kg bw/day		No adverse systemic effects		Rat (male)	Experimental value
Oral (stomach tube)	NOAEL systemic effects	OECD 422	20 mg/kg bw/day		No adverse systemic effects		Rat (female)	Experimental value

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (diet)	NOAEL	Subchronic toxicity test	150 mg/kg bw/day	Liver	No effect	13 week(s)	Rat (male)	Experimental value
Oral (diet)	NOAEL	Subchronic toxicity test	750 mg/kg bw/day	Liver	No effect	13 week(s)	Rat (female)	Experimental value

## Conclusion

Not classified for subchronic toxicity

## Mutagenicity (in vitro)

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

ethylene dimethacrylate

Result	Method	Test substrate	Effect	Value determination	Remark
Positive without metabolic activation	OECD 473	Human lymphocytes		Experimental value	
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	

methacrylic acid, monoester with propane-1,2-diol

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

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## 1,1'-(p-tolylimino)dipropen-2-ol

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S. typhimurium and E. coli)	No effect	Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster lung fibroblasts (V79)	No effect	Experimental value	

## 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	EU Method B.13/14	Bacteria (S. typhimurium and E. coli)		Experimental value	

## Mutagenicity (in vivo)

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

#### ethylene dimethacrylate

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

#### methacrylic acid, monoester with propane-1,2-diol

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

### 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

#### ethylene dimethacrylate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation	NOAEC	Equivalent to OECD 451	≥ 2.05 mg/l air	102 weeks (6h / day, 5 days / week)	Rat (female)	No carcinogenic effect		Experimental value
Inhalation	NOAEC	Equivalent to OECD 451	≥ 4.1 mg/l air	102 weeks (6h / day, 5 days / week)	Rat (male)	No carcinogenic effect		Experimental value
Oral (drinking water)	NOAEL	Carcinogenic toxicity study	≥ 90.3 mg/kg bw/day	104 week(s)	Rat (male)	No carcinogenic effect		Experimental value
Oral (drinking water)	NOAEL	Carcinogenic toxicity study	≥ 193.8 mg/kg bw/day	104 week(s)	Rat (female)	No carcinogenic effect		Experimental value

#### methacrylic acid, monoester with propane-1,2-diol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation (vapours)	NOAEC	Equivalent to OECD 451	≥ 2.05 mg/l air	102 weeks (6h / day, 5 days / week)	Rat (female)	No carcinogenic effect		Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 451	≥ 4.1 mg/l air	102 weeks (6h / day, 5 days / week)	Rat (male)	No carcinogenic effect		Experimental value
Oral (drinking water)	NOAEL	Carcinogenic toxicity study	≥ 90.3 mg/kg bw/day	104 weeks (daily)	Rat (male)	No carcinogenic effect		Experimental value
Oral (drinking water)	NOAEL	Carcinogenic toxicity study	≥ 193.8 mg/kg bw/day	104 weeks (daily)	Rat (female)	No carcinogenic effect		Experimental value

### Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

### ANCHOR A

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Publication date: 2008-12-01

Date of revision: 2022-10-26

Revision number: 0600

BIG number: 45230

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# ANCHOR A

No (test)data on the mixture available

Judgement is based on the relevant ingredients  
ethylene dimethacrylate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	500 mg/kg bw/day	15 days (1x / day)	Rat	No effect	Foetus	Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	100 mg/kg bw/day	15 days (1x / day)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL	Equivalent to OECD 422	≥ 1000 mg/kg bw/day		Rat (male / female)	No effect		Experimental value

methacrylic acid, monoester with propane-1,2-diol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	450 mg/kg bw/day	22 day(s)	Rabbit	No effect		Experimental value
Developmental toxicity (Inhalation (vapours))	NOAEC	Equivalent to OECD 414	8.44 mg/l air	10 days (6h / day)	Rat	No effect		Experimental value
Maternal toxicity (Inhalation (vapours))	LOEC	OECD 414	0.41 mg/l air	10 days (6h / day)	Rat	Maternal toxicity		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	50 mg/kg bw/day	22 day(s)	Rabbit	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL (P/F1)	OECD 416	400 mg/kg bw/day		Rat (male / female)	No effect		Experimental value

1,1'-(p-tolylimino)dipropen-2-ol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	20 mg/kg bw/day	14 days (1x / day)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	20 mg/kg bw/day	14 days (1x / day)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL (P)	OECD 422	40 mg/kg bw/day		Rat (male)	No effect	Male reproductive organ	Experimental value
	NOAEL (P)	OECD 422	20 mg/kg bw/day		Rat (female)	No effect	Female reproductive organ	Experimental value

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	300 mg/kg bw/day	28 days (gestation, daily)	Rabbit (female)	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	1000 mg/kg bw/day	28 days (gestation, daily)	Rabbit	No effect		Experimental value
Effects on fertility (Oral (diet))	NOAEL	OECD 421	276 mg/kg bw/day	51 day(s)	Rat (male)	No effect		Experimental value
	NOAEL	OECD 421	359 mg/kg bw/day	40 day(s) - 51 day (s)	Rat (female)	No effect		Experimental value

## Conclusion

Not classified for reprotoxic or developmental toxicity

## Toxicity other effects

### ANCHOR A

No (test)data on the mixture available

## Chronic effects from short and long-term exposure

### ANCHOR A

Skin rash/inflammation.

## 11.2. Information on other hazards

No evidence of endocrine disrupting properties

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# ANCHOR A

## SECTION 12: Ecological information

### 12.1. Toxicity

#### ANCHOR A

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

ethylene dimethacrylate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	15.95 mg/l	96 h	Danio rerio	Static system		Experimental value; GLP
Acute toxicity crustacea	EC50	OECD 202	44.9 mg/l	48 h	Daphnia magna	Static system		Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	19 mg/l	96 h	Pseudokirchneriella subcapitata	Static system		Experimental value; GLP
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 211	5.05 mg/l	21 day(s)	Daphnia magna	Semi-static system		Experimental value; GLP
Toxicity aquatic micro-organisms	EC10	ISO 8192	> 100 mg/l	180 minutes	Activated sludge	Static system	Fresh water	Experimental value; Respiration

methacrylic acid, monoester with propane-1,2-diol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	DIN 38412-15	493 mg/l	48 h	Leuciscus idus	Static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EC50	OECD 202	> 143 mg/l	48 h	Daphnia magna	Semi-static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 97.2 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
	NOEC	OECD 201	> 97.2 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 211	45.2 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction

1,1'-(p-tolylimino)dipropen-2-ol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		17 mg/l	96 h	Danio rerio	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	28.8 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	ErC50	OECD 201	245 mg/l	72 h	Desmodesmus subspicatus	Static system	Salt water	Experimental value; GLP
	NOEC	OECD 201	57.8 mg/l	72 h	Desmodesmus subspicatus	Static system	Salt water	Experimental value; Growth rate
Toxicity aquatic micro-organisms	EC10	Equivalent to OECD 209	> 1995 mg/l	30 minutes	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	> 1.55 mg/l	96 h	Pimephales promelas			Experimental value; Greater than the water solubility
Acute toxicity crustacea	EC50	Equivalent to EU Method C.2	> 1.46 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Greater than the water solubility
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 7.49 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Greater than the water solubility
	NOEC	OECD 201	3.56 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity aquatic crustacea	NOEC	Equivalent to OECD 211	0.7 mg/l	21 day(s)	Daphnia magna	Flow-through system	Fresh water	Experimental value; GLP

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## Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

## 12.2. Persistence and degradability

ethylene dimethacrylate

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301F	69 %; GLP	28 day(s)	Experimental value

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

Method	Value	Primary degradation/mineralisation	Value determination
Hydrowin v2.00	1.6 year(s) - 15.7 year(s)	Primary degradation	Calculated value

methacrylic acid, monoester with propane-1,2-diol

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301C	81 %	4 week(s)	Experimental value

### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	13.453 h	0.5E6 /cm <sup>3</sup>	Calculated value

1,1'-(p-tolylimino)dipropen-2-ol

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301B	39.1 %; GLP	28 day(s)	Experimental value

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301B	70.73 %; GLP	28 day(s)	Experimental value

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

Method	Value	Primary degradation/mineralisation	Value determination
OECD 111	25 day(s) - 211 day(s); GLP	Primary degradation	Experimental value

## Conclusion

### Water

Contains non readily biodegradable component(s)

## 12.3. Bioaccumulative potential

ANCHOR A

### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

ethylene dimethacrylate

### BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.00	2.96			QSAR

### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		2.4		Experimental value

methacrylic acid, monoester with propane-1,2-diol

### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		0.97	20 °C	Experimental value

1,1'-(p-tolylimino)dipropen-2-ol

### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		2.1	24 °C	Experimental value

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	5340; GLP	23 day(s)	Lepomis macrochirus	Experimental value

### Log Kow

Method	Remark	Value	Temperature	Value determination
		4.04 - 4.91	25 °C	QSAR

## Conclusion

Contains bioaccumulative component(s)

## 12.4. Mobility in soil

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ethylene dimethacrylate

(log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	1.367 - 2.12	QSAR

methacrylic acid, monoester with propane-1,2-diol

(log) Koc

Parameter	Method	Value	Value determination
log Koc		1.9	Calculated value

1,1'-(p-tolylimino)dipropen-2-ol

(log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	1.76 - 2.09	Calculated value

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

(log) Koc

Parameter	Method	Value	Value determination
log Koc		3.6	QSAR

## Conclusion

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

## 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

### ANCHOR A

#### 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)

ethylene dimethacrylate

#### Groundwater

Groundwater pollutant

methacrylic acid, monoester with propane-1,2-diol

#### Groundwater

Groundwater pollutant

1,1'-(p-tolylimino)dipropen-2-ol

#### 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).

08 04 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other 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. 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).

# ANCHOR A

## SECTION 14: Transport information

### Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
	Hazard identification number	
	Class	
	Classification code	
14.4. Packing group		
	Packing group	
	Labels	
14.5. Environmental hazards		
	Environmentally hazardous substance mark	no
14.6. Special precautions for user		
	Special provisions	
	Limited quantities	
14.7. Maritime transport in bulk according to IMO instruments		
	Annex II of MARPOL 73/78	Not applicable, based on available data

## 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
6.9 %	
118 g/l	

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

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
· ethylene dimethacrylate · methacrylic acid, monoester with propane-1,2-diol · 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	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: (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; (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; (c) hazard class 4.1; (d) hazard class 5.1.	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 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: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 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). 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: 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"; 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"; 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.
· ethylene dimethacrylate · methacrylic acid, monoester with propane-1,2-diol	Substances falling within one or more of the following points: (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008: — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2	Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081

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but excluding any such substances classified due to effects only following exposure by inhalation  
 — skin sensitiser category 1, 1A or 1B  
 — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2  
 — serious eye damage category 1 or eye irritant category 2  
 (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council  
 (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex.  
 The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.

## National legislation Belgium

### ANCHOR A

No data available

### Quartz (SiO<sub>2</sub>)

Additional classification	Silices cristallines : quartz (poussières alvéolaires); C; La mention "C" signifie que l'agent en question relève du champ d'application de l'arrêté royal du 2 décembre 1993 concernant la protection des travailleurs contre les risques liés à l'exposition à des agents cancérogènes et mutagènes et reprotoxiques au travail.
Agents cancérogènes, mutagènes et reprotoxiques (Code du bien-être au travail, Livre VI, titre 2)	silice cristalline alvéolaire; VI.2.3.; Liste non limitative de substances, mélanges et procédés visés à l'article VI.2-1, alinéa 3

## National legislation The Netherlands

### ANCHOR A

Waterbezwaarlijkheid	B (4); Algemene Beoordelingsmethodiek (ABM)
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## National legislation France

### ANCHOR A

No data available

## National legislation Germany

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WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
ethylene dimethacrylate	
TA-Luft	5.2.5
methacrylic acid, monoester with propane-1,2-diol	
TA-Luft	5.2.5
1,1'-(p-tolylimino)dipropen-2-ol	
TA-Luft	5.2.5/I
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	
TA-Luft	5.2.5/I

## National legislation Austria

### ANCHOR A

No data available

## National legislation United Kingdom

### ANCHOR A

No data available

## Other relevant data

### ANCHOR A

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 section 3:

- H300 Fatal if swallowed.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H361 Suspected of damaging fertility or the unborn child.

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H372 Causes damage to organs through prolonged or repeated exposure if inhaled.  
H412 Harmful to aquatic life with long lasting effects.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
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 %
NOAEC/NOAEL	No Observed Adverse Effect Concentration/No Observed Adverse Effect Level
NOEC/NOEL	No Observed Effect Concentration/No Observed Effect Level
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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