

## Safety data sheet

### Acrylic-Siegelharzpaste M13-0,5

Uniprox Safety data sheet according to Regulation (EC) No. 1907/2006 (REACH)

Article 31, Annex II as amended

Date/ Revised: 04.07.2022

Document No.: M13-0,5\_Acrylic\_Siegelharzpaste\_006\_EN

#### 1. Substance/preparation and company identification

Trade name: Acrylic-Siegelharzpaste (M13-0,5)

Application of the substance/ the preparation: Resin in gel form for orthopaedic technology

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#### 2. Hazards Identification

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

The product has been classified according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended**

##### Physical Hazards

Flammable liquids	Category 2	H225	Highly flammable liquid and vapor.
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##### Health Hazards

Caustic burning / irritation of skin	Category 2	H315	Causes skin irritation.
Skin Sensitisation	Category 1 B	H317	May cause an allergic skin reaction.

Specific Target Organ Toxicity  
-single exposure  
(Respiratory system)

Category 3	H335	May cause respiratory irritation.
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##### 2.2. Label elements

##### Contains

methyl methacrylate; CAS-No.: 80-62-6  
triethyleneglycol dimethacrylate; CAS-No.: 109-16-0  
ethylene di(S-thioacetate); CAS-No.: 123-81-9  
tris(nonylphenyl) phosphite; CAS-No.: 26523-78-4  
n-butyl acrylate; CAS-No.: 141-32-2  
Danger

##### Signal word (s)

##### GHS pictogram



##### Hazard Statement(s)

H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.  
 H317 - May cause an allergic skin reaction.  
 H335 - May cause respiratory irritation.

### Precautionary Statements

#### Prevention:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
 No smoking.  
 P233 - Keep container tightly closed.  
 P261 - Avoid breathing dust/ fume/ gas / mist/ vapours / spray.  
 P262 - Do not get in eyes, on skin, or on clothing.  
 P280 - Wear protective gloves / eye protection/ face protection.  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.

#### Response:

### 2.3. Other hazards

Take precautionary measures against static discharges. Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/ or heavy metal ions.

## 3. Composition/Information on Ingredients

### 3.2. Mixtures

#### General information: preparation

Chemical name	CAS-No. EC-No. REACH-No.	Concentration	M-Factor	Notes
methyl methacrylate	80-62-6 201-297-1 01-2119452498-28	50 - 70 %	No data available	#
triethyleneglycol dimethacrylate	109-16-0 203-652-6 01-2119969287-21	1 – 10 %	No data available	
N,N-bis-(2-hydroxypropyl)-p-toluidine	38668-48-3 254-075-1 01-2119980937-17	0.1 – 1 %	No data available	
ethylene di (S- thioacetate)	123-81 -9 204-653-4 ---	0,1 – 0,25 %	No data available	
tris(nonylphenyl) phosphite	26523-78-4 247-759-6 ---	0.1 – 0,25 %	No data available	
n-butyl acrylate	141-32 -2 205-480-7 01-2119453155-43	0.1 – 0,25 %	No data available	#

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# This substance has workplace exposure limit(s).

## This substance is listed as SVHC

#### Classification

Chemical name	Classification	Notes
methyl methacrylate	Flam. Liq.: 2: H225; Skin Irrit.: 2: H315; Skin Sens.: 1: H317; STOT SE: 3: H335;	Note D
triethyleneglycol dimethacrylate	Skin Sens.: 1B: H317;	Note D
N,N-bis-(2-hydroxypropyl)-p-toluidine	Acute Tox.: 2: H300; Eye Irrit.: 2: H319; Aquatic Chronic: 3: H412;	No data available

ethylene di (S- thioacetate)	Acute Tox.: 4: H302; Eye Irrit.: 2: H319; Skin Sens.: 1A: H317; Aquatic Chronic: 2: H411;	No data available
tris(nonylphenyl) phosphite	Skin Sens.: 1: H317; Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410;	No data available
n-butyl acrylate	Flam. Liq.: 3: H226; Acute Tox.: 4: H332; Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Skin Sens.: 1B: H317; STOT SE: 3: H335; Aquatic Chronic: 3: H412;	Note D

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

#### 4. First-aid measures

##### General

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all contaminated clothing immediately.

##### 4.1. Description of first aid measures

###### Inhalation

Move subject to fresh air and keep him calm.

See a physician.

###### Skin contact

Wash off immediately with soap and water. If skin irritation occurs consult a physician.

###### Eye contact

Keeping the eyelids apart flush thoroughly with water immediately. If irritation persists, contact a physician.

###### Ingestion

Do not induce vomiting. Consult a physician immediately.

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

Skin Sensitisation, Causes skin and eye irritation. Excessive or prolonged exposure can cause the following: Headache, confusion

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

###### Hazards

No data available

###### Treatment

No

#### 5. Fire-fighting measures

##### General Fire Hazards

Vapours are heavier than air and can form an explosive mixture with air. Flammable liquid. Vapours can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Remove all sources of ignition. Also keep emptied containers away from sources of heat and ignition. Keep out unprotected persons. In case of fire, remove the endangered barrels and bring to a safe place, if this can be done safely. Containers exposed to heat (fire) may build up pressure. Cool by splashing with water. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### 5.1. Extinguishing media

<b>Suitable extinguishing media</b> Unsuitable extinguishing media <b>5.2. Special hazards arising from the substance or mixture</b>  <b>5.3. Advice for firefighters</b> <b>Special firefighting procedures</b>	foam, dry chemical, carbon dioxide high volume water jet  May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.  Keep away from sources of ignition - No smoking. Vapors are heavier than air. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Take action to prevent static discharges. Use explosion-proof equipment. In the event of fire, cool the endangered containers with water. Firefighting must be carried out from a safe distance.  Wear self-contained breathing apparatus.
<b>6. Accidental release measures</b> <b>6.1. Personal precautions, protective equipment and emergency procedures</b>  <b>6.1.1 For non-emergency personnel</b> <b>6.1.2 For emergency responders</b> <b>6.2. Environmental precautions</b>  <b>6.3. Methods and material for containment and cleaning up</b>  <b>6.4. Reference to other sections</b>	Assure sufficient ventilation. Keep away sources of ignition. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/mist/aerosol. No data available. No data available. Prevent product from getting into drains/surface water/groundwater.  Remove all sources of ignition. As sure sufficient ventilation. Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment! Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with regulations. For personal protection see section 8. For disposal considerations see section 13.
<b>7. Handling and storage</b> <b>7.1. Precautions for safe handling</b>	Do not breathe vapors. Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product. Safety shower and eye wash fountain should be available. Keep away from sources of ignition - No smoking. Vapors are heavier than air. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Take action to prevent static discharges. Use explosion-proof equipment. In the event of fire, cool the

endangered containers with water. Firefighting must be carried out from a safe distance. When using do not eat, drink or smoke. Remove contaminated clothing and wash it before reuse. Avoid inhalation, ingestion and contact with skin and eyes. Provide sufficient ventilation and exhaust at the workplace. Provide good room ventilation even at ground level (vapours are heavier than air). Keep container tightly closed. Open drum carefully as content may be under pressure. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Wash thoroughly after handling.

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

Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat. Protect from the action of light. Keep containers tightly closed in a cool, well - ventilated place. Fill the container by approximately 90 % only as oxygen (air) is required for stabilisation. With large storage containers make sure the oxygen(air) supply is sufficient to ensure stability. Keep only in the original container at a temperature not exceeding 25 °C.

### 7.3. Specific end use(s)

No data available.

## 8. Exposure Controls/Personal Protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Methyl methacrylate	TWA	50 ppm 208 mg/m <sup>3</sup>	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	100 ppm 416 mg/m <sup>3</sup>	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	TWA	50 ppm	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (02 2017)
	STEL	100 ppm	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (02 2017)
n-butyl acrylate	TWA	1 ppm 5 mg/m <sup>3</sup>	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	5 ppm 26 mg/m <sup>3</sup>	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	TWA	2 ppm 11 mg/m <sup>3</sup>	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (12 2009)
	STEL	10 ppm 53 mg/m <sup>3</sup>	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (12 2009)

### 8.2. Exposure controls

**Appropriate Engineering Controls** No data available

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** tightly fitting goggles

**Hand Protection**

Material: butyl rubber gloves

Break-through time: 60 min

Glove thickness: 0.7 mm

Guideline: EN 374

Additional Information: Gloves should be replaced regularly, especially after extended contact with the product. For each workplace a suitable glove type has to be selected.

**Skin and Body Protection**

On handling of larger quantities: face mask, chemical-resistant boots and apron

**Respiratory Protection**

Breathing apparatus in case of high concentrations short term: filter appliance, filter A

**Hygiene measures**

Store work clothing separately. Take off all contaminated clothing immediately. Follow the usual good standards of occupational hygiene. After work-time and during work intervals the affected skin areas must be thoroughly cleaned.

**Environmental Controls**

No data available

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

Physical state

liquid

Form

liquid

Colour

colourless

Odour

ester-like

Odor Threshold

No data available

pH

Not applicable

Freezing point

Not available

Boiling Temperature

ca. 100 °C (1,013 hPa)

Flash point

10 °C (methyl methacrylate)

Evaporation Rate

No data available.

Flammability (solid, gas)

No data available.

Flammability Limit - Upper (%)

12.5 % (V) (methyl methacrylate)

Flammability Limit - Lower (%)

2.1 % (V) at 10,5 °C (methyl methacrylate)

Vapor pressure

approx. 40 hPa (20 °C)

Vapor density (air=1)

&gt; 1 (20 °C)

Density

approx. 1 g/cm<sup>3</sup> (20 °C)

Relative density

no data available

Water solubility

approx. 16 g/l (20 °C)

Other solubility

not available

Partition coefficient n- octanol/water

not available

Self-Ignition Temperature

not pyrophoric

Decomposition Temperature

No decomposition if used as directed.

Viscosity, kinematic

No data available

Viscosity, dynamic

approx. 320 m Pas

**9.2. Other information**

Explosive properties

No data available.

Oxidizing properties

No data available.

Minimum ignition temperature

430 °C (methyl methacrylate)

**10. Stability and reactivity****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

No decomposition if used as directed.

**10.3. Possibility of hazardous reactions**

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

**10.4. Conditions to avoid**

Heat and ignition sources, aging, contamination, oxygen free atmosphere.

**10.5. Incompatible materials**

Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing agents and oxidizing agents.

**10.6. Hazardous decomposition products**

None when used as directed.

**11. Toxicological information****Information on likely routes of exposure****Inhalation**

Relevant route of exposure. Information on effects are given below.

**Skin Contact**

Relevant route of exposure. Information on effects are given below.

**Eye contact**

Relevant route of exposure. Information on effects are given below.

**Ingestion**

If handled correctly, not a relevant route of exposure. Information on effects are given below.

**11.1. Information on toxicological effects****Acute toxicity****Oral****Product**

Acute toxicity estimate: > 2,000 mg/kg  
(Calculation method)

**Components**

Methyl methacrylate

LD 50 (Rat): &gt; 5,000 mg/kg

triethyleneglycol dimethacrylate

LD 50 (Rat): &gt; 5,000 mg/kg

N,N-bis-(2-hydroxypropyl)-p-toluidine

LD 50 (Rat, male/female): 25 mg/kg

LD 50 (Rat, male/female): 172 mg/kg

LD 50 (Rat, male/female): 100 mg/kg

ethylene di(S-thioacetate)

LD 50 (Rat, male): 303 mg/kg

tris(nonylphenyl) phosphite

LD 50 (Rat): &gt; 16,200 mg/kg

n-butyl acrylate

LD 50 (Rat): 3,150 mg/kg

**Dermal****Product**

No data available.

**Components**

Methyl methacrylate

LD 50 (Rabbit): &gt; 5,000 mg/kg

triethyleneglycol dimethacrylate

LD 50 (Mouse, male): &gt; 2,000 mg/kg

N,N-bis-(2-hydroxypropyl)-p-toluidine

LD 50 (Rat, male/female): &gt; 2,000 mg/kg

ethylene di(S-thioacetate)

LC0 (Rabbit): 200 mg/kg

tris(nonylphenyl) phosphite

LD 50 (Rabbit, male and female): &gt; 2,000 mg/kg

n-butyl acrylate

LD 50 (Rabbit, male): &gt; 2,000 mg/kg

LD 50 (Rabbit, male): 3,024 mg/kg

	LD 50 (Rabbit, female): 5,660 mg/kg
<b>Inhalation</b>	
<b>Product</b>	No data available.
<b>Components</b>	
Methyl methacrylate	LC 50 (Rat, 4 h) 29.8 mg/l Vapour, Dusts, mists and fumes
triethyleneglycol dimethacrylate	No labelling required
N,N-bis-(2-hydroxypropyl)-p-toluidine	No labelling required
ethylene di(S-thioacetate)	LC 0 (Rat, 1 h) 2.25 mg/l Dusts, mists and fumes LC 0 (Rat, 4 h) 1.125 mg/l Dusts, mists and fumes
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	LC 50 (Rat, 4 h) 10.3 mg/l Vapour
<b>Repeated dose toxicity</b>	
<b>Product</b>	No data available.
<b>Components</b>	
Methyl methacrylate	NOAEL (Rat, Inhalation (Vapour)): 25 ppm NOAEL (Rat, Oral): 2000 ppm
triethyleneglycol dimethacrylate	NOAEL (Rat, Oral): 1,000 mg/kg
N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available.
ethylene di(S-thioacetate)	No data available.
tris(nonylphenyl) phosphite	No observed adverse effect level (Rat (male and female), Oral, daily): 200 mg/kg
n-butyl acrylate	No data available.
<b>Skin Corrosion/Irritation</b>	
<b>Product</b>	Contact with skin may cause irritations.
<b>Components</b>	
Methyl methacrylate	(Rabbit): Irritating.
triethyleneglycol dimethacrylate	FDA 1959 Draize, occlusive (Rabbit, 24 h): Not irritating
N,N-bis-(2-hydroxypropyl)-p-toluidine	does not require labelling
ethylene di(S-thioacetate)	Not irritating
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	(Rabbit): Irritating. source: literature (Rabbit, 24 h): Slightly irritating. source: literature
<b>Serious Eye Damage/Eye Irritation</b>	
<b>Product</b>	Contact with the eyes may cause irritation.
<b>Components</b>	
Methyl methacrylate	Not irritating
triethyleneglycol dimethacrylate	OECD Guideline 405 (Rabbit): Not irritating
N,N-bis-(2-hydroxypropyl)-p-toluidine	OECD Guideline 405 (Rabbit): Irritant
ethylene di(S-thioacetate)	(Rabbit): Irritating.
tris(nonylphenyl) phosphite	OECD Guideline 405 (Rabbit): Not irritating
n-butyl acrylate	(Rabbit): Irritating.
<b>Respiratory or Skin Sensitization</b>	
<b>Product</b>	No data available.
<b>Components</b>	

Methyl methacrylate	May cause sensitization by skin contact.
triethyleneglycol dimethacrylate	Local Lymph Node Assay (Mouse): Skin sensitizer Allergic reactions on humans were recorded.
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not a skin sensitizer.
ethylene di(S-thioacetate)	Strong skin sensitizer.
tris(nonylphenyl) phosphite	Local Lymph Node Assay, OECD TG 429 (Mouse): Did not cause sensitisation on laboratory animals.
n-butyl acrylate	(Mouse) Skin sensitizer
<b>Germ Cell Mutagenicity</b>	
<b>In vitro</b>	
<b>Product</b>	No data available.
<b>Components</b>	
Methyl methacrylate	No data available.
triethyleneglycol dimethacrylate	positive and negative. Not classified
N,N-bis-(2-hydroxypropyl)-p-toluidine	(OECD TG 471)negative
ethylene di(S-thioacetate)	No data available.
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	No data available.
<b>In vivo</b>	
<b>Product</b>	No data available.
<b>Components</b>	
Methyl methacrylate	No data available.
triethyleneglycol dimethacrylate	not mutagenic / no evidence of mutagenic effects
N,N-bis-(2-hydroxypropyl)-p-toluidine	Ames test: negative
ethylene di(S-thioacetate)	No data available.
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	No data available.
<b>Carcinogenicity</b>	
<b>Product</b>	Contains no ingredient listed as a carcinogen (>0.1%).
<b>Components</b>	
Methyl methacrylate	Not classified
triethyleneglycol dimethacrylate	Not classified
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified
ethylene di(S-thioacetate)	Not classified
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	Not carcinogenic
<b>Reproductive toxicity</b>	
<b>Product</b>	Contains no ingredient listed as toxic to reproduction (>0.1%).
<b>Components</b>	
Methyl methacrylate	Not classified
triethyleneglycol dimethacrylate	Animal testing did not show any effects on fertility.
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified
ethylene di(S-thioacetate)	Not classified

tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	Animal testing did not show any effects on fertility.

#### **Specific Target Organ Toxicity - Single Exposure**

<b>Product</b>	No data available.
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#### **Components**

Methyl methacrylate	Category 3 with respiratory tract irritation.
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triethyleneglycol dimethacrylate	no evidence for hazardous properties
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified based on available information.
ethylene di(S-thioacetate)	Not classified
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	Respiratory Tract - Respiratory tract irritation.

#### **Specific Target Organ Toxicity - Repeated Exposure**

<b>Product</b>	No data available.
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#### **Components**

Methyl methacrylate	Not classified
triethyleneglycol dimethacrylate	no evidence for hazardous properties
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified
ethylene di(S-thioacetate)	Not classified
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	Not classified

#### **Aspiration Hazard**

<b>Product</b>	No aspiration toxicity classification
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#### **Components**

Methyl methacrylate	Not classified
triethyleneglycol dimethacrylate	Not classified
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified
ethylene di(S-thioacetate)	Not classified
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	Not classified as an aspiration hazard.

<b>Other adverse effects:</b>	Avoid contact with the skin and eyes and inhalation of the product vapours.
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## **12. Ecological information**

### **12.1. Toxicity**

#### **Acute toxicity**

##### **Fish**

<b>Product</b>	No data available.
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#### **Components**

Methyl methacrylate	LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): > 79 mg/l (OECD Test Guideline 203) NOEC (Danio rerio (zebra fish), 32 d): 9.4 mg/l (OECD Test Guideline 210) literature
triethyleneglycol dimethacrylate	LC 50 (Danio rerio (zebra fish), 96 h): 16.4 mg/l (OECD TG 203)
N,N-bis-(2-hydroxypropyl)-p-toluidine	LC 50 (Danio rerio (zebra fish), 96 h): 17 mg/l

ethylene di(S-thioacetate)	LC 50 (Leuciscus idus (Golden orfe), 48 h): 4.85 mg/l (DIN 38412 Teil 15)
tris(nonylphenyl) phosphite	LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): > 100 mg/l (OECD TG 203)
n-butyl acrylate	LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): > 5.2 mg/l (OECD TG 203)
<b>Aquatic Invertebrates</b>	
<b>Product</b>	No data available.
<b>Components</b>	
Methyl methacrylate	EC 50 (Daphnia magna (Water flea), 48 h): 69 mg/l (OECD Test Guideline 202) NOEC (Daphnia magna (Water flea), 21 d): 37 mg/l (OECD Test Guideline 202)
triethyleneglycol dimethacrylate	No data available.
N,N-bis-(2-hydroxypropyl)-p-toluidine	EC 50 (Daphnia magna (Water flea), 48 h): 28.8 mg/l (OECD TG 202)
ethylene di(S-thioacetate)	No data available.
tris(nonylphenyl) phosphite	EC 50 (Daphnia magna (Water flea), 48 h): 0.3 mg/l (OECD TG 202) No toxicity at the limit of solubility
n-butyl acrylate	EC 50 (Daphnia magna (Water flea), 48 h): 8.2 mg/l (OECD TG 202)
<b>Toxicity to Aquatic Plants</b>	
<b>Product</b>	No data available.
<b>Components</b>	
Methyl methacrylate	EC 50 (Selenastrum capricornutum (green algae), 72 h): > 100 mg/l (OECD Test Guideline 201)
triethyleneglycol dimethacrylate	EC 50 (Pseudokirchneriella subcapitata (green algae), 72 h): > 100 mg/l (OECD TG 201)
N,N-bis-(2-hydroxypropyl)-p-toluidine	EC 50 (Desmodesmus subspicatus (green algae), 72 h): 245 mg/l (OECD TG 201)
ethylene di(S-thioacetate)	No data available.
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	EC 50 (Selenastrum capricornutum (green algae), 96 h): 2.65 mg/l (OECD TG 201)
<b>Toxicity to microorganisms</b>	
<b>Product</b>	No data available.
<b>Components</b>	
Methyl methacrylate	No data available.
triethyleneglycol dimethacrylate	No data available.
N,N-bis-(2-hydroxypropyl)-p-toluidine	EC10 (30 min): > 1,995 mg/l (OECD Test Guideline 209)
ethylene di(S-thioacetate)	No data available.
tris(nonylphenyl) phosphite	NOEC: 15.4 mg/l (OECD Test Guideline 301D)
n-butyl acrylate	EC0 (Activated sludge, 3 d): > 150 mg/l
<b>Chronic Toxicity</b>	
<b>Product</b>	No data available.

**Components**

Methyl methacrylate	No data available.
triethyleneglycol dimethacrylate	No data available.
N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available.
ethylene di(S-thioacetate)	No data available.
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	No data available.

**Aquatic Invertebrates**

<b>Product</b>	No data available.
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**Components**

Methyl methacrylate	No data available.
triethyleneglycol dimethacrylate	NOEC (Daphnia magna (Water flea), 21 d): 32 mg/l (OECD Test Guideline 211)
N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available.
ethylene di(S-thioacetate)	No data available.
tris(nonylphenyl) phosphite	NOEC (Daphnia magna (Water flea), 21 d): > 0.1 mg/l (OECD TG 211). No toxicity at the limit of solubility
n-butyl acrylate	NOEC (Daphnia magna (Water flea), 21 d): 0.136 mg/l (OECD Test Guideline 211)

**Toxicity to Aquatic Plants**

<b>Product</b>	No data available.
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**Components**

Methyl methacrylate	NOEC (Selenastrum capricornutum (green algae), 72 h): > 100 mg/l (OECD Test Guideline 201)
triethyleneglycol dimethacrylate	NOEC (Pseudokirchneriella subcapitata (green algae), 72 h): 18.6 mg/l (OECD TG 201)
N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available.
ethylene di(S-thioacetate)	No data available.
tris(nonylphenyl) phosphite	NOEC (Raphidocelis subcapitata (freshwater green alga), 72 h): 100 mg/l (OECD TG 201)
n-butyl acrylate	No data available.

**12.2 Persistence and Degradability****Biodegradation**

<b>Product</b>	(14 d, OECD 301 C): 94 % Readily biodegradable Related to substance: methyl methacrylate
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**BOD/COD Ratio**

<b>Product</b>	No data available.
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**Components**

Methyl methacrylate	No data available.
triethyleneglycol dimethacrylate	No data available.
N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available.
ethylene di(S-thioacetate)	No data available.
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	No data available.

**12.3 Bioaccumulative potential**

<b>Product</b>	no specific test data available no evidence for hazardous
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<b>12.4 Mobility in soil</b>	properties (structure-activity-relationships) (analogy)
<b>12.5 Results of PBT and vPvB</b>	no specific test data available
<b>12.6. Other adverse effects assessment</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Methyl methacrylate	Non-classified vPvB substance
triethyleneglycol dimethacrylate	Non-classified PBT substance
N,N-bis-(2-hydroxypropyl)-p-toluidine	Non-classified vPvB substance
ethylene di(S-thioacetate)	Non-classified PBT substance
tris(nonylphenyl) phosphite	Non-classified vPvB substance
n-butyl acrylate	Non-classified PBT substance
<b>12.6 Other adverse effects</b>	Prevent substance from entering soil, natural bodies of water and sewer systems.

### 13. Disposal considerations

#### 13.1. Waste treatment methods

General information	No data available.
Disposal methods	Waste is hazardous. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.
Uncleaned packaging	Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.

### 14. Transport Information

#### Transport on land (ADR/RID/GGVs EB)

##### 14.1. UN number

ADR	UN1866
RID	UN1866
IMDG	UN1866
IATA	UN1866

##### 14.2. UN proper shipping name

ADR	RESIN SOLUTION
RID	RESIN SOLUTION
IMDG	RESIN SOLUTION
IATA	Resin solution

##### 14.3. Transport hazard class(es)

ADR	3
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RID	3
IMDG	3
IATA	3
<b>14.4. Packing group</b>	
ADR	
Packing group	II
Classification Code	F1
Hazard Identification Number	33
Labels	3
Remarks	Special provision 640D, observe §35 GGVSEB
RID	
Packing group	II
Classification Code	F1
Hazard Identification Number	33
Labels	3
Remarks	Special provision 640D
IMDG	
Packing group	II
Labels	3
EmS Code	F-E,S-E
IATA (Cargo aircraft only)	
Packing instruction (cargo aircraft)	364
Packing instruction (LQ)	Y341
Packing group	II
Labels	3
IATA (Passenger and cargo aircraft)	
Packing instruction (passenger aircraft)	353
Packing instruction (LQ)	Y341
Packing group	II
Labels	3
<b>14.5. Environmental hazards</b>	
ADR	
Environmentally hazardous	No
RID	
Environmentally hazardous	No
IMDG	
Marine pollutant	No
<b>14.6. Special precautions for user</b>	
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.	
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	
Not applicable for product as supplied.	

## 15. Regulatory information

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

**EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:**

P5c. Flammable liquids 5,000 t 50,000 t

ATTENTION: Classification into hazard category P5c is a minimum classification. Only the operator may estimate if the product is covered by hazard category P5a or P5c. For P5a and P5b different qualifying quantities are valid.

#### National Regulations

Please note Directive 94/33/EC (Protection of Young Workers at the Workplace Directive) and amendments. Please note Directive 92/85/EEC (Pregnant Workers Directive) and amendments.

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

#### International regulations

<b>Montreal protocol</b>	Not applicable
<b>Stockholm convention</b>	Not applicable
<b>Rotterdam convention</b>	Not applicable
<b>Kyoto protocol</b>	Not applicable

### 16. Other Information

#### Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; AGW - Occupational exposure limit; ASTM - American Society for Testing and Materials; AwSV - Ordinance on facilities for handling substances that are hazardous to water; BSB - Biochemical oxygen demand; c.c. - closed cup; CAS - Chemical Abstract Services; CESIO - European Committee of Organic Surfactants and their Intermediates; CSB - Chemical oxygen demand; DMEL - Derived minimum effect level; DNEL - Derived no effect level; EbC50 - median concentration in terms of reduction of growth; EC -Effective concentration; EINECS - European Inventory of Existing Commercial Chemical Substances; EN - European norm; ErC50 - median concentration in terms of reduction of growth rate; GGVSEB - German ordinance for road, rail and inland waterway transportation of dangerous goods; GGVSee - German ordinance for sea transportation of dangerous goods; GLP - Good Laboratory Practice; GMO - Genetic Modified Organism; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; ISO - International Organization For Standardization; LD/LC -lethal dosis/concentration; LOAEL - Lowest observed adverse effect level; LOEL - Lowest observed effect level; M-Factor - multiplying factor; NOAEL - No observed adverse effect level; NOEC - no observed effect concentration; NOEL - no observed effect level; o.c. - open cup; OECD - Organisation for Economic Cooperation and Development; OEL - Occupational Exposure Limit; PBT - Persistent, bioaccumulative, toxic; PNEC - Predicted no effect concentration; REACH - REACH registration; RID - Convention concerning International Carriage by Rail; SVHC - Substances of Very High Concern; TA - Technical Instructions; TRGS - Technical Rules for Hazardous Substances; vPvB - very persistent, very bioaccumulative; WGK - Water Hazard Class

Note D	Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.
Note D	Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".
Note D	Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

**Classification and applied procedure to derive the classification of mixtures according to Regulation (EC) No.1272/2008 (CLP)**

Classification	Classification procedure
Flammable liquids, Category 2	On basis of test data.
Skin irritation, Category 2	Calculation method
Skin sensitizer, Category 1	Calculation method
Specific Target Organ Toxicity - Single Exposure, Category 3	Calculation method

**Wording of the H-statements in section 2 and 3**

- H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H300 Fatal if swallowed.  
 H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled  
 H335 May cause respiratory irritation.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic for aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

**Other information**

The product is normally supplied in a stabilized form.  
 If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.

**Disclaimer:**

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