Safety data sheet

Siegelharz

Uniprox Safety data sheet in accordance with regulation (EC) 1907/2006
Product: Siegelharz (MG114)
Date/ Revised: 11.10.2021
Document No.: MG114_Siegelharz_006_EN

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1. Substance/preparation and company identification

Trade name: Siegelharz
Application of the substance/ the preparation: Resin for orthopaedic technology

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2. Hazard 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.

Health Hazards

Caustic burning / irritation of skin	Category 2	H315	Causes skin irritation.
Skin Sensitisation	Category 1	H317	May cause an allergic skin reaction.
Specific Target Organ Toxicity -single exposure (Respiratory system)	Category 3	H335	May cause respiratory irritation.

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

Signal word (s) Danger

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.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/eye protection/face protection.

Response:

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P370+P378: In case of fire, use recommended extinguishing media for extinction.

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.

Results of PBT and vPvB assessment

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. **Endocrine disrupting properties-Toxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties-Ecotoxicity

This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

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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	0.25 – < 1 %	No data available	
ethylene di (S- thioacetate)	123-81 -9 204-653-4 01-2120775150-61	0,1 – 0,25 %	No data available	
tris(nonylphenyl) phosphite	26523-78-4 247-759-6 01-2119520601-54	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	Classification: Flam. Liq.: 2: H225; Skin Irrit.: 2: H315; Skin Sens.: 1B: H317; STOT SE: 3: H335; Supplemental label information: None known. Specific concentration limit: Specific target organ toxicity - single exposure Category 3, >= 10 %; Acute toxicity, oral: LD 50: > 5,000 mg/kg Acute toxicity, inhalation: LC 50: 29.8 mg/l Acute toxicity, dermal: LD 50: > 5,000 mg/kg	Note D
triethyleneglycol dimethacrylate	Classification: Skin Sens.: 1B: H317; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: > 5,000 mg/kg Acute toxicity, inhalation: None known. Acute toxicity, dermal: LD 50: > 2,000 mg/kg	Note D
N,N-bis-(2-hydroxypropyl)-p-toluidine	Classification: Acute Tox.: 2: H300; Eye Irrit.: 2: H319; Aquatic Chronic: 3: H412; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: 25 mg/kg Acute toxicity, inhalation: None known. Acute toxicity, dermal: LD 50: > 2,000 mg/kg	No data available
ethylene di (S- thioacetate)	Classification: Acute Tox.: 4: H302; Acute Tox.: 4: H332; Acute Tox.: 4: H332; Eye Irrit.: 2: H319; Skin Sens.: 1A: H317; STOT SE: 3: H335; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: 303 mg/kg Acute toxicity, inhalation: LC 50: 1.5 mg/l Acute toxicity, dermal: LD 50: > 2,000 mg/kg	No data available
tris(nonylphenyl) phosphite	Classification: Skin Sens.: 1: H317; Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: > 16,200 mg/kg	No data available

	Acute toxicity, inhalation: None known. Acute toxicity, dermal: LD 50: > 2,000 mg/kg	
n-butyl acrylate	Classification: 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; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: 3,150 mg/kg Acute toxicity, inhalation: LC 50: 10.3 mg/l Acute toxicity, dermal: LD 50: > 2,000 mg/kg	Note D

CLP: Regulation No. 1272/2008.
The full text for all H-statements is displayed in section 16.

Endokrine disrupting properties-Ecotoxicity

tris(nonylphenyl) phosphite	The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.

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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

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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	
Suitable extinguishing media	foam, dry chemical, carbon dioxide
Unsuitable extinguishing media	high volume water jet
5.2. Special hazards arising from the substance or mixture	May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.
5.3. Advice for firefighters	
Special firefighting procedures	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.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus.

6.	**Accidental release measures**	
	6.1. Personal precautions, protective equipment and emergency procedures	Assure sufficient ventilation. Keep away sources of ignition. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/mist/aerosol.
	6.1.1 For non-emergency personnel	No data available.
	6.1.2 For emergency responders	No data available.
	6.2. Environmental precautions	Prevent product from getting into drains/surface water/groundwater.
	6.3. Methods and material for containment and cleaning up	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.
	6.4. Reference to other sections	For personal protection see section 8. For disposal considerations see section 13.

7.	**Handling and storage**	
	7.1. Precautions for safe handling	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.

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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/m³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL 15 minutes	100 ppm 416 mg/m³	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/m³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL 15 minutes	5 ppm 26 mg/m³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	TWA	2 ppm 11 mg/m³	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/m³	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (12 2009)

Exposure guidelines

Chemical name	Type	Source
Methyl methacrylate	Time Weighted Average (TWA): Indicative	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended
	Short Term Exposure Limit (STEL): Indicative	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended
n-butyl acrylate	Time Weighted Average (TWA): Indicative	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended
	Short Term Exposure Limit (STEL): Indicative	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Methyl methacrylate	Workers	Inhalation	Local, long-term; 208 mg/m³	Repeated dose toxicity
	General population	Inhalation	Local, long-term; 104 mg/m³	Repeated dose toxicity
	Workers	Dermal	Local, long-term; 1.5 mg/cm²	Skin sensitization
	General population	Dermal	Local, long-term; 1.5 mg/cm²	Skin sensitization
	General population	Inhalation	Local, short-term; 208 mg/m³	Repeated dose toxicity
	Workers	Eyes	Local effects;	No hazard identified
	General population	Eyes	Local effects;	No hazard identified
	General population	Oral	Systemic, long-term; 8.2 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Local, short-term; 416 mg/m³	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 13.67 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 8.2 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 348.4 mg/m³	Repeated dose toxicity
	General population	Dermal	Local, short-term; 1.5 mg/cm²	Skin sensitization
	General population	Inhalation	Systemic, long-term; 74.3 mg/m³	Repeated dose toxicity

	Workers	Dermal	Local, short-term; 1.5 mg/cm²	Skin sensitization

triethyleneglycol dimethacrylate	Workers	Dermal	Systemic, long-term; 13.9 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 14.5 mg/m³	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 8.33 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 8.33 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 48.5 mg/m³	Repeated dose toxicity
	General population	Eyes	Local effects;	No hazard identified
	Workers	Eyes	Local effects;	No hazard identified

N,N-bis-(2-hydroxypropyl)-p-toluidine	Workers	Inhalation	Systemic, long-term; 2.47 mg/m³	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.25 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 0.7 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effects;	No hazard identified
	Workers	Eyes	Local effects;	Low hazard (no threshold derived).

ethylene di(S-thioacetate)	Workers	Dermal	Systemic, long-term; 0.14 mg/kg	Repeated dose toxicity
	Workers	Eyes	Local effects;	
	General population	Dermal	Systemic, long-term; 0.05 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 0.05 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effects;	
	Workers	Inhalation	Systemic, long-term; 0.49 mg/m³	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 0.074 mg/m³	Repeated dose toxicity

tris(nonylphenyl) phosphite	General population	Inhalation	Systemic, long-term; 11,8 mg/m³	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 23,6 mg/m³	Repeated dose toxicity
	Workers	Eyes	Local effects;	Low hazard (no threshold derived).
	Workers	Dermal	Systemic, long-term; 16,7 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 8,35 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effects;	Low hazard (no threshold derived).
	General population	Oral	Systemic, long-term; 1,67 mg/kg	Repeated dose toxicity

n-butyl acrylate	Workers	Inhalation	Local, long-term; 11 mg/m³	irritation respiratory tract
	General population	Eyes	Local effects;	No hazard identified
	Workers	Eyes	Local effects;	Medium hazard (no threshold derived).

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
Methyl methacrylate	marine water	0.094 mg/l	
	marine water sediment	0.102 mg/kg	
	Sewage treatment plant	10 mg/l	
	freshwater sediment	10.2 mg/kg	
	Soil	1.48 mg/kg	
	freshwater	0.94 mg/l	

triethyleneglycol dimethacrylate	freshwater	0.016 mg/l	
	marine water	0.002 mg/l	
	freshwater sediment	0.185 mg/kg	
	marine water sediment	0.018 mg/kg	
	Soil	0.027 mg/kg	
	Sewage treatment plant	1.7 mg/l	

N,N-bis-(2-hydroxypropyl)-p-toluidine	Soil	0.023 mg/kg	
	marine water	0.002 mg/l	
	Sewage treatment plant	199.5 mg/l	
	marine water sediment	0.016 mg/kg	
	freshwater sediment	0.163 mg/kg	
	freshwater	0.017 mg/l	

ethylene di(S-thioacetate)	freshwater	4.8 µg/l	

tris(nonylphenyl) phosphite	Predator	37 mg/kg	Oral
	marine water	50 µg/l	
	marine water sediment	0.15 mg/kg	
	freshwater sediment	0.15 mg/kg	
	Sewage treatment plant	1.8 mg/l	
	freshwater	50 µg/l	

n-butyl acrylate	marine water	0 mg/l	
	Sewage treatment plant	3.5 mg/l	
	Soil	1 mg/kg	
	freshwater sediment	0.034 mg/kg	
	freshwater	0.003 mg/l	
	marine water sediment	0.003 mg/kg	

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

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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)	> 1 (20 °C)
Density	approx. 1 g/cm³ (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)

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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.

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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.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	Headache, Dizziness.
Skin Contact:	Causes skin irritation. May cause allergic skin reaction.
Eye contact:	Causes serious eye irritation.
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): > 5,000 mg/kg
triethyleneglycol dimethacrylate	LD 50 (Rat): > 5,000 mg/kg
N,N-bis-(2-hydroxypropyl)-p-toluidine	LD 50 (Rat, male/female): 25 mg/kg
ethylene di(S-thioacetate)	LD 50 (Rat, male): 303 mg/kg
tris(nonylphenyl) phosphite	LD 50 (Rat): > 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): > 5,000 mg/kg
triethyleneglycol dimethacrylate	LD 50 (Mouse, male): > 2,000 mg/kg
N,N-bis-(2-hydroxypropyl)-p-toluidine	LD 50 (Rat, male/female): > 2,000 mg/kg
ethylene di(S-thioacetate)	LD 50 (Rat): > 2,000 mg/kg
tris(nonylphenyl) phosphite	LD 50 (Rabbit, male and female): > 2,000 mg/kg
n-butyl acrylate	LD 50 (Rabbit, male): > 2,000 mg/kg

Inhalation

Product	No data available.
Components	

Methyl methacrylate	LC 50 (Rat, 4 h)29.8 mg/l Vapour, Dusts, mists and fumes
triethyleneglycol dimethacrylate	Vapour, No data available. Dusts, mists and fumes, No data available.
N,N-bis-(2-hydroxypropyl)-p-toluidine	The substance or mixture has no acute inhalation toxicity, Dusts, mists and fumes The substance or mixture has no acute inhalation toxicity, Vapour
ethylene di(S-thioacetate)	LC 50 (Acute toxicity estimate): 1.5 mg/l Dusts, mists and fumes LC 50 (Acute toxicity estimate): 11 mg/l Vapour
tris(nonylphenyl) phosphite	Vapour, No data available. Dusts, mists and fumes, No data available.
n-butyl acrylate	LC 50 (Rat): 10.3 mg/l Vapour Dust, mist and fumes, No data available.

Repeated dose toxicity

Product	No data available.
Components	
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.

Skin Corrosion/Irritation

Product	Contact with skin may cause irritations.
Components	
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

Serious Eye Damage/Eye Irritation

Product	Contact with the eyes may cause irritation.
Components	
Methyl methacrylate	Not irritating
triethyleneglycol dimethacrylate	OECD Guide-line 405 (Rabbit): Not irritating
N,N-bis-(2-hydroxypropyl)-p-toluidine	OECD Guide-line 405 (Rabbit): Irritant
ethylene di(S-thioacetate)	(Rabbit): Irritating.
tris(nonylphenyl) phosphite	OECD Guideline 405 (Rabbit): Not irritating
n-butyl acrylate	(Rabbit): Irritating.

Respiratory or Skin Sensitization

Product	No data available.
Components	
Methyl methacrylate	Local Lymph Node Assay (LLNA), OECD 429 (Mouse): Skin sensitizer
triethyleneglycol dimethacrylate	Local Lymph Node Assay (LLNA), OECD 429 (Mouse): Skin sensitizer
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not a skin sensitizer.
ethylene di(S-thioacetate)	Maximization Test, OECD 406 (Guinea Pig): Strong skin sensitizer.
tris(nonylphenyl) phosphite	Buehler Test, OECD 406 (Guinea Pig): Not a skin sensitizer. Local Lymph Node Assay (LLNA), OECD 429 (Mouse): Not a skin sensitizer. May cause sensitization by skin contact. EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI
n-butyl acrylate	Local Lymph Node Assay (LLNA), OECD 429 (Mouse): Skin sensitizer

Carcinogenicity

Product	Contains no ingredient listed as a carcinogen (>0.1%).
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 carcinogenic

Germ Cell Mutagenicity

In vitro

Product	No data available.
Components	
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.

In vivo

Product	No data available.
Components	
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.

Reproductive toxicity

Product	Contains no ingredient listed as toxic to reproduction

(>0.1%).

Components	
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	
Product	No data available.
Components	
Methyl methacrylate	Category 3 with respiratory tract irritation.
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	
Product	No data available.
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	
Product	No aspiration toxicity classification
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.

11.2 Information on other hazards

Endocrine disrupting properties

Product:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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.
Other adverse effects:	Avoid contact with the skin and eyes and inhalation of the product vapours.

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12. Ecological information

12.1. Toxicity

Acute hazards to the aquatic environment:

Fish

Product	No data available.
Components	
Methyl methacrylate	LC 50 (Oncorhynchus mykiss, 96 h): > 79 mg/l NOEC (Danio rerio, 32 d): 9.4 mg/l
triethyleneglycol dimethacrylate	LC 50 (Danio rerio, 96 h): 16.4 mg/l
N,N-bis-(2-hydroxypropyl)-p-toluidine	LC 50 (Danio rerio, 96 h): 17 mg/l
ethylene di(S-thioacetate)	LC 50 (Leuciscus idus, 48 h): 4.85 mg/l
tris(nonylphenyl) phosphite	LC 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l
n-butyl acrylate	LC 50 (Oncorhynchus mykiss, 96 h): > 5.2 mg/l NOEC (Oncorhynchus mykiss, 96 h): 3.8 mg/l

Aquatic Invertebrates

Product	No data available.
Components	
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)	EC 50 (Daphnia magna, 48 h): 11 mg/l
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 NOEC (Daphnia magna, 48 h): 2.4 mg/l

Toxicity to Aquatic Plants

Product	No data available.
Components	
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)	EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 100 mg/l (OECD 201)
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	EC 50 (Selenastrum capricornutum (green algae), 96 h): 2.65 mg/l (OECD TG 201)

Toxicity to microorganisms

Product	No data available.
Components	
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	No data available.
n-butyl acrylate	EC50 (Activated sludge, 0.5 h): > 1000 mg/l (OECD 209)

Chronic hazards to the aquatic environment:

Fish

Product	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

Product	No data available.
Components	
Methyl methacrylate	No data available.
triethyleneglycol dimethacrylate	NOEC (Daphnia magna, 21 d): 32 mg/l
N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available.
ethylene di(S-thioacetate)	No data available.
tris(nonylphenyl) phosphite	NOEC (Daphnia magna, 21 d): > 0.1 mg/l No toxicity at the limit of solubility
n-butyl acrylate	NOEC (Daphnia magna, 21 d): 0.136 mg/l Lowest Observed Effect Concentration (Daphnia magna, 21 d): 0.457 mg/l

Toxicity to Aquatic Plants

Product	No data available.
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)	NOEC (Desmodesmus subspicatus (green algae), 72 h): >= 100 mg/l (OECD 201)

tris(nonylphenyl) phosphite	NOEC (Raphidocelis subcapitata (freshwater green alga), 72 h): 100 mg/l (OECD TG 201)
n-butyl acrylate	NOEC (Selenastrum capricornutum (green algae), 96 h): < 1.8 mg/l (OECD 201)

Toxicity to microorganisms

Product:	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.

12.2 Persistence and Degradability

Biodegradation

Product	(14 d, OECD 301 C): 94 % Readily biodegradable Related to substance: methyl methacrylate
Components	
Methyl methacrylate	(14 d, OECD 301 C): 94 % The product is easily biodegradable.
triethyleneglycol dimethacrylate	(28 d): 85 % The product is easily biodegradable
N,N-bis-(2-hydroxypropyl)-p-toluidine	(28 d, OECD 301 B): 39 % The product is not biodegradable.
ethylene di(S-thioacetate)	(28 d, OECD 301 D): 65.9 % The product is easily biodegradable.
tris(nonylphenyl) phosphite	(28 d, OECD 301 D): < 4 %
n-butyl acrylate	(28 d, literature): 60 % The product is easily biodegradable. (28 d, ISO 14593): > 80 % The product is easily biodegradable.

BOD/COD Ratio

Product	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.

12.3 Bioaccumulative potential

Product	no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)
Components	
Methyl methacrylate	No data available.

triethyleneglycol dimethacrylate	Accumulation in organisms is not expected due to the coefficient of distribution of n-octanol in water (log Pow).
N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available.
ethylene di(S-thioacetate)	Bioconcentration Factor (BCF): 2.82
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	Accumulation in organisms is not expected due to the coefficient of distribution of n-octanol in water (log Pow).

Partition Coefficient n-octanol / water (log Kow)

Product:	Log Kow: Not available.
Components	
Methyl methacrylate	Log Kow: 1.38
triethyleneglycol dimethacrylate	Log Kow: 2.3 20 °C (OECD 117)
N,N-bis-(2-hydroxypropyl)-p-toluidine	Log Kow: 2.1 (OECD 107)
ethylene di(S-thioacetate)	Log Kow: 1.46 20 °C (OECD 117)
tris(nonylphenyl) phosphite	No data available.
n-butyl acrylate	Log Kow: 2.36
	Log Kow: 2.38 (25 °C)

12.4 Mobility in soil

Product:	no specific test 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	The product evaporates slowly.

12.5 Results of PBT and vPvB

Product:	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.
Components	
Methyl methacrylate	Non-classified vPvB substance
	Non-classified PBT substance
triethyleneglycol dimethacrylate	Non-classified vPvB substance
	Non-classified PBT substance
N,N-bis-(2-hydroxypropyl)-p-toluidine	Non-classified vPvB substance
	Non-classified PBT substance
ethylene di(S-thioacetate)	Non-classified vPvB substance
	Non-classified PBT substance
tris(nonylphenyl) phosphite	Non-classified vPvB substance
	Non-classified PBT substance
n-butyl acrylate	Non-classified vPvB substance
	Non-classified PBT substance

12.6. Endocrine disrupting properties:

Product:	This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.
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	The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.
n-butyl acrylate	No data available

12.7 Other adverse effects

Other hazards

Product:	Prevent substance from entering soil, natural bodies of water and sewer systems.

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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.

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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
RID	3
IMDG	3
IATA	3

14.4. Packing group

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

14.5. Environmental hazards

ADR	
Environmentally hazardous	No
RID	
Environmentally hazardous	No
IMDG	
Marine pollutant	No

14.6. Special precautions for user

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.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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15. Regulatory information

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

EU. REACH Annex XIV, Substances Subject to Authorization: none

EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):

Chemical name	CAS-No.	Concentration	Additional information
tris(nonylphenyl) phosphite	26523-78-4		Endocrine disrupting properties (Article 57(f) - environment)

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Methyl methacrylate	80-62-6	

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.

Inventory Status:

Registration, Evaluation and Authorisation of Chemicals (REACH):	preregistered, registered or exempted
US TSCA Inventory:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
Canada NDSL Inventory:	Not on Inventory.
Australia AICS:	Not on Inventory.
Japan (ENCS) List:	Not on Inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
International regulations	
Montreal protocol	Not applicable
Stockholm convention	Not applicable
Rotterdam convention	Not applicable
Kyoto protocol	Not applicable

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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

Notes:

Methyl methacrylate	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'.
n-butyl acrylate		

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.

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