SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

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

1.1 Product identifier

Product name: DEGADUR® 332

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

Identified uses: binder for floor-coating
Roller application or brushing
Hand-mixing with intimate contact and only PPE available
Wide dispersive indoor use resulting in inclusion into or onto a matrix
Wide dispersive outdoor use resulting in inclusion into or onto a matrix

Uses advised against: Applications where liquid monomer is intended to come into contact with skin or nails.

1.3 Details of the supplier of the safety data sheet

Company Name	:	Röhm GmbH Product Stewardship Deutsche-Telekom-Allee 9 64295 Darmstadt
Telephone	:	+49 6151 863 7542
E-mail	:	sds-info@roehm.com

1.4 Emergency telephone number:

24-Hour Health Emergency	:	+49 6241 402 5280 (24h)

SECTION 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.

Health Hazards

Skin irritation	Category 2	H315: Causes skin irritation.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.
Specific Target Organ Toxicity - Single Exposure	Category 3	H335: May cause respiratory irritation.
Environmental Hazards		
Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label Elements

Signal Words: Danger

Hazard Statement(s):

H225: Highly flammable liquid and vapor.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H412: Harmful to aquatic life with long lasting effects.

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/vapors/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/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 alcohol-resistant foam, carbon dioxide or dry sand to extinguish.

Hazardous ingredients which must be listed on the label:

2-ethylhexyl acrylate
methyl methacrylate
triethyleneglycol dimethacrylate

2.3 Other hazards

Take precautionary measures against static discharges. 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.

PBT/vPvB data

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

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Solution of an acrylic polymer in methacrylic acid esters / acrylic acid esters

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
2-ethylhexyl acrylate	25,0 - <30,0%	103-11-7	203-080-7	01-2119453158-37;	Aquatic Toxicity (Acute): 1; Aquatic Toxicity (Chronic): 1	
methyl methacrylate	20,0 - <30,0%	80-62-6	201-297-1	01-2119452498-28;	Aquatic Toxicity (Acute): 1; Aquatic Toxicity (Chronic): 1	#
triethyleneglycol dimethacrylate	1,0 - <5%	109-16-0	203-652-6	01-2119969287-21;	Aquatic Toxicity (Acute): 1; Aquatic Toxicity (Chronic): 1	
N,N-bis-(2-hydroxypropyl)-p-toluidine	0,25 - <1,0%	38668-48-3	254-075-1	01-2119980937-17;	Aquatic Toxicity (Acute): 1; Aquatic Toxicity (Chronic): 1	

* 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
2-ethylhexyl acrylate	Classification: Skin Irrit.: 2: H315; 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: 4.435 mg/kg Acute toxicity, inhalation: None known. Acute toxicity, dermal: LD 50: 7.522 mg/kg	Note D
methyl methacrylate	Classification: Flam. Liq.: 2: H225; Skin Irrit.: 2: H315; Skin Sens.: 1: H317; STOT SE: 3: H335; Supplemental label information: None known. Specific concentration limit: None known. 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	None.
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	None.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take off all contaminated clothing immediately. 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.

Inhalation: Move subject to fresh air and keep him calm. If feeling unwell seek medical advice.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. In case of complaints get medical advice.

Ingestion: Do not induce vomiting. Seek medical advice. Never give anything by mouth to an unconscious person.

Personal Protection for First-aid Responders: First Aid responders should pay attention to self-protection and use the recommended protective clothing

4.2 Most important symptoms and effects, both acute and delayed

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

Hazards: May cause sensitization by skin contact.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Symptomatic treatment.

SECTION 5: Firefighting measures

General Fire Hazards: Vapours are heavier than air and can form an explosive mixture with 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. Remove 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 , Carbon dioxide, sprinkler system with water, Dry chemical.
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. Closed container may rupture if strongly heated. Vapours may form explosive mixtures with air. Combustible air-vapour mixtures are heavier than the air and spread along the floor. Ignition from a considerable distance is possible.

5.3 Advice for firefighters

Special fire-fighting 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. Fire fighting must be carried out from a safe distance.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Assure sufficient ventilation. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/mist/aerosol. Keep away from open flames, hot surfaces and sources of ignition. Vapours can form explosive mixtures with air. Keep out unprotected persons. Avoid spark generation.
6.1.1 For non-emergency personnel:	Remove sources of ignition. Stop leak if you can do so without risk. Assure sufficient ventilation.
6.1.2 For emergency responders:	Use water SPRAY only to cool containers! Do not put water on leaked material.
6.2 Environmental Precautions:	Prevent product from getting into drains/surface water/groundwater.
6.3 Methods and material for containment and cleaning up:	Remove sources of ignition. Assure 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures:	Provide good ventilation or extraction.

Local/Total ventilation: Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)

Safe handling advice: 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. Fire fighting must be carried out from a safe distance.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.When using do not eat, drink or smoke. 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. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Controll staff entry to working area. Training for staff on good practice. Recording of any 'near miss' situations. Regular cleaning of equipment and work area.

Contact avoidance measures: see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: 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 locked up. Store at temperatures up to 25 °C.

Safe packaging materials: No data available.

7.3 Specific end use(s): Applications; see Section 1.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values	Source
methyl methacrylate	STEL		100 ppm	Ireland. OELVs, Schedule 1 (Code of

	15 minutes			Practice for Chemical Agents Regulations), as amended (2018)
	TWA		50 ppm	Ireland. OELVs, Schedule 1 (Code of Practice for Chemical Agents Regulations), as amended (2016)
	TWA		50 ppm	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 (02 2017)
	STEL		100 ppm	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 (02 2017)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

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
2-ethylhexyl acrylate	Workers	Inhalativ	37,5 mg/m3	Long-term - local effects
	Workers	Dermal	0,242 mg/cm2	Long-term - local effects

methyl methacrylate	Workers	Inhalativ	208 mg/m3	Long-term - systemic effects
	Workers	Dermal	13,7 mg/kg/d	Long-term - systemic effects
	Workers	Inhalativ	416 mg/m3	Short-term exposure
	Workers	Dermal	1,500 µg/cm2	Short-term exposure
	Consumers	Inhalativ	74,3 mg/m3	Long-term - systemic effects
	Consumers	Dermal	8,2 mg/kg/d	Long-term - systemic effects
	Consumers	Oral	8,2 mg/kg/d	Long-term - systemic effects
	Consumers	Inhalativ	208 mg/m3	Short-term exposure

triethyleneglycol dimethacrylate	Workers	Inhalativ	48,5 mg/m3	Long-term - systemic effects
	Workers	Dermal	13,9 mg/kg bodyweight/day	Long-term - systemic effects

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
2-ethylhexyl acrylate	Fresh water	0,002727 mg/l	
	marine water	0,000272 mg/l	
	freshwater sediment	0,126 mg/kg	
	Marine sediments	0,126 mg/kg	
	soil	1 mg/kg	
	sewage treatment plant (STP)	2,3 mg/l	

methyl methacrylate	Fresh water	0,94 mg/l	
	freshwater sediment	10,2 mg/kg dry weight	
	marine water	0,094 mg/l	
	marine water sediment	1,02 mg/kg dry weight	
	soil	1,48 mg/kg dry weight	

	sewage treatment plant (STP)	10 mg/l	
	Humans via the environment	8,2 mg/kg bw/day	

triethyleneglycol dimethacrylate	Fresh water	0,016 mg/l	
	marine water	0,0016 mg/l	
	freshwater sediment	0,185 mg/kg (dry weight)	
	Marine sediments	0,0185 mg/kg (dry weight)	
	soil	0,027 mg/kg (dry weight)	
	sewage treatment plant (STP)	1,7 mg/l	

8.2 Exposure controls

Appropriate Engineering Controls: For monitoring procedures refer for instance to "Empfohlene Analysenverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz and "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health

Monitoring methods: Provide good ventilation or extraction.

Individual protection measures, such as personal protective equipment

Eye/face protection: tightly fitting goggles

Hand Protection: Material: butyl rubber gloves
Break-through time: 66 min
Glove thickness: 0,33 mm
Guideline: EN 374
Additional Information: Gloves should be replaced regularly, especially after extended contact with the product., For each work-place 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 if the limit values like TLV are exceeded, when vapours or aerosols occur Respirator with filter for organic vapour short term: filter appliance, filter A

Hygiene measures: Take off all contaminated clothing immediately. Store work clothing separately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.

Environmental Controls: see section 6.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form: liquid viscous

Color: Colorless

Odor: ester-like

Odor Threshold:	< 1 ppm
Freezing point:	Paraffin Separation < 15°C
Boiling Point:	approx. 212 °F/100 °C (1.013 hPa) (estimated) (methyl methacrylate)
Flammability:	Highly flammable liquid and vapor.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	(estimated) 12,5 %(V) (methyl methacrylate)
Explosive limit - lower:	(estimated) 2,1 %(V) (methyl methacrylate)
Flash Point:	50 °F/10 °C (estimated) (methyl methacrylate)
Auto-ignition temperature:	806 °F/430 °C (estimated) (methyl methacrylate)
Decomposition Temperature:	No decomposition if used as directed.
pH:	7 1 % in water

Viscosity

Dynamic viscosity:	600 - 1.100 mPa.s (73 °F/23 °C, Brookfield)
Kinematic viscosity:	approx. 600 - 1200 mm2/s(calculated)
Flow Time:	100 - 130 s 73 °F/23 °C Method: ISO 2431, 6 mm cup

Solubility(ies)

Solubility in Water:	approx. 20 g/l (68 °F/20 °C)
Solubility (other):	soluble in ethyl acetate
Dissolution Rate:	no specific test data available
Partition coefficient (n-octanol/water):	0,7 (literature) (methyl methacrylate)
Dispersion Stability:	Not applicable
Vapor pressure:	approx. 40 hPa (68 °F/20 °C)
Relative density:	< 1 estimated
Density:	0,98 g/cm3 (68 °F/20 °C)
Bulk density:	
Relative vapor density:	> 1 68 °F/20 °C

9.2 Other information

Autoignition Temperature:	not spontaneously flammable in air at ambient temperature (not pyrophoric)
Impact sensitivity:	Not impact sensitive.
Evaporation Rate:	> 1 (butyl acetate = 1)

SECTION 10: Stability and reactivity

10.1	**Reactivity:**	polymerisation
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. Vigorous polymerization is possible when heated /exposed to heat.
10.4	**Conditions to avoid:**	Avoid high temperatures and sources of ignition. Ultraviolet light. 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.
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.

SECTION 11: Toxicological information

General information: Properties of components in summary.

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

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:	Eye may become red, tear, and become painful.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product:	Acute toxicity estimate: > 2.000 mg/kg (Calculation method)
Components:	

2-ethylhexyl acrylate	LD 50 (Rat): 4.435 mg/kg
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): 25 mg/kg

Dermal

Product:	Acute toxicity estimate: > 5.000 mg/kg (Calculation method)
Components:	
2-ethylhexyl acrylate	LD 50 (Rabbit): 7.522 mg/kg
methyl methacrylate	LD 50 (Rabbit): > 5.000 mg/kg
triethyleneglycol dimethacrylate	LD 50 (Mouse): > 2.000 mg/kg
N,N-bis-(2-hydroxypropyl)-p-toluidine	LD 50 (Rat): > 2.000 mg/kg

Inhalation

Product:	ATEmix: > 5.000 mg/l Vapour
Components:	
2-ethylhexyl acrylate	Not toxic after single exposure; Not classified based on available information., Vapour Not toxic after single exposure; Not classified based on available information., Dust and mist
methyl methacrylate	LC 50 (Rat, 4 h): 29,8 mg/l low toxicity after single exposure; Vapour Not toxic after single exposure; Dust and mist, Not applicable
triethyleneglycol dimethacrylate	Not toxic after single exposure; Vapour Not toxic after single exposure; Dust and mist, Not classified for acute toxicity based on available data.
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not toxic after single exposure; The substance or mixture has no acute inhalation toxicity, Dust and mist Not toxic after single exposure; The substance or mixture has no acute inhalation toxicity, Vapour

Repeated dose toxicity

Product:	No data available.
Components:	
2-ethylhexyl acrylate	No data available.
methyl methacrylate	NOAEL (Rat, Inhalativ, 2 years): 25 ppm Findings: Damage to mucous membranes in the nose at 400 ppm NOAEL (Rat, Oral, 2 years): 2000 ppm Findings: no toxic effects
triethyleneglycol dimethacrylate	NOAEL (Rat, Oral): 1.000 mg/kg
N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available.

Skin Corrosion/Irritation

Product:	May cause skin irritation.
Components:	
2-ethylhexyl acrylate	Irritating.
methyl methacrylate	(Rabbit): non-irritant , 4 h (Human): Irritating.
triethyleneglycol dimethacrylate	FDA 1959 Draize, occlusive (Rabbit): Not irritating , 24 h
N,N-bis-(2-hydroxypropyl)-p-toluidine	OECD 404 (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation

Product:	, This mixture is not classified according to CLP/GHS
Components:	
2-ethylhexyl acrylate	Not irritating
methyl methacrylate	Not irritating OECD 405, FDA 1959 Draize , Rabbit:
triethyleneglycol dimethacrylate	Not irritating OECD Test Guideline 405 , Rabbit:
N,N-bis-(2-hydroxypropyl)-p-toluidine	Moderately irritating OECD Test Guideline 405 , Rabbit:

Respiratory or Skin Sensitization

Product:	May cause an allergic skin reaction.
Components:	
2-ethylhexyl acrylate	Skin sensitizer Not classified for respiratory sensitization
methyl methacrylate	Local Lymph Node Assay (LLNA), LLNA (OECD 429) (Mouse): May cause sensitization by skin contact. Cases of sensitisation also observed in humans. Not classified for respiratory sensitization
triethyleneglycol dimethacrylate	Local Lymph Node Assay (LLNA), OECD 429 (Mouse): Skin sensitizer Not classified for respiratory sensitization
N,N-bis-(2-hydroxypropyl)-p-toluidine	in vivo, OECD 406 (Guinea Pig): Not a skin sensitizer. Not classified for respiratory sensitization

Carcinogenicity

Product:	Contains no ingredient listed as a carcinogen (>0.1%).
Components:	
2-ethylhexyl acrylate	Not classified
methyl methacrylate	Not classified Non-carcinogenic in inhalation and feeding studies carried out on rats, mice and dogs.
triethyleneglycol dimethacrylate	Not classified
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified

Germ Cell Mutagenicity

Contains no ingredient listed as a mutagen (>0.1%).

In vitro

Product:	No toxicological tests have been conducted with the product itself.;
Components:	
2-ethylhexyl acrylate	No data available.
methyl methacrylate	gene mutation (OECD 471): negative gene mutation (OECD 476): negative , Chinese hamster lung fibroblasts (V79) Micronucleus test (OECD 487): negative , human lymphocytes
triethyleneglycol dimethacrylate	gene mutation (OECD 471): negative gene mutation (OECD 476): negative , Chinese hamster lung fibroblasts (V79) Chromosomal aberration (OECD 473): negative CHO-cells
N,N-bis-(2-hydroxypropyl)-p-toluidine	Bacterial reverse mutation assay (OECD TG 471): negative

In vivo

Product:	No toxicological tests have been conducted with the product itself.
Components:	
2-ethylhexyl acrylate	No data available.
methyl methacrylate	gene mutation (Dominant lethal test) Inhalativ (Mouse): negative
triethyleneglycol dimethacrylate	Based on available data, the classification criteria are not met.

N,N-bis-(2-hydroxypropyl)-p-toluidine	Ames test: negative

Reproductive toxicity

Product:	Contains no ingredient listed as toxic to reproduction (>0.1%).
Components:	
2-ethylhexyl acrylate	Not classified
methyl methacrylate	Not classified No indications of toxic effects were observed in reproduction studies in animals. OECD 414 OECD 416 Oral
triethyleneglycol dimethacrylate	Not classified Oraloral: drinking water
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified

Specific Target Organ Toxicity - Single Exposure

Product:	May cause respiratory irritation.
Components:	
2-ethylhexyl acrylate	Inhalation - vapor: Category 3 with respiratory tract irritation.
methyl methacrylate	Inhalation - vapor: Category 3 with respiratory tract irritation.
triethyleneglycol dimethacrylate	Not classified
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified

Specific Target Organ Toxicity - Repeated Exposure

Product:	This mixture is not classified according to CLP/GHS
Components:	
2-ethylhexyl acrylate	Not classified
methyl methacrylate	Not classified
triethyleneglycol dimethacrylate	Not classified
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified

Aspiration Hazard

Product:	Not applicable
Components:	
2-ethylhexyl acrylate	Not classified
methyl methacrylate	Not classified
triethyleneglycol dimethacrylate	Not classified
N,N-bis-(2-hydroxypropyl)-p-toluidine	Not classified

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:	
2-ethylhexyl acrylate	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.;
methyl methacrylate	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.;

triethyleneglycol dimethacrylate	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.;
N,N-bis-(2-hydroxypropyl)-p-toluidine	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.;

Other information

Product: There are no toxicological data available for the product as such. Avoid contact with the skin and eyes and inhalation of the product vapours.;

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: Properties of components in summary.

Components:

2-ethylhexyl acrylate	LC 50 (Salmo gairdneri, 96 h): 4,6 mg/l LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): 1,81 mg/l
methyl methacrylate	LC 50 (96 h): > 100 mg/l Expert judgement
triethyleneglycol dimethacrylate	LC 50 (Danio rerio (zebra fish), 96 h): 16,4 mg/l
N,N-bis-(2-hydroxypropyl)-p-toluidine	LC 50 (Danio rerio (zebra fish), 96 h): 17 mg/l

Aquatic Invertebrates

Product: Properties of components in summary.

Components:

2-ethylhexyl acrylate	EC 50 (Daphnia magna (Water flea), 48 h): 1,3 mg/l
methyl methacrylate	EC 50 (Daphnia magna (Water flea), 48 h): 69 mg/l
triethyleneglycol dimethacrylate	No data available.
N,N-bis-(2-hydroxypropyl)-p-toluidine	EC 50 (Daphnia magna (Water flea), 48 h): 28,8 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Components:

2-ethylhexyl acrylate	EC 50 (Desmodesmus subspicatus (green algae), 72 h): 1,71 mg/l (OECD TG 201)
methyl methacrylate	EC 50 (Selenastrum capricornutum (green algae), 72 h): > 100 mg/l (OECD 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)

Toxicity to microorganisms

Product:	No data available.
Components:	
2-ethylhexyl acrylate	No data available.
methyl methacrylate	EC3 (Pseudomonas putida, 16 h): 100 mg/l (cell proliferation inhibition test, Bringmann-Kühn)
triethyleneglycol dimethacrylate	No data available.
N,N-bis-(2-hydroxypropyl)-p-toluidine	EC10 (30 min): > 1.995 mg/l (OECD Test Guideline 209)

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
2-ethylhexyl acrylate	NOEC (Salmo salar (Atlantic salmon), 21 d): 0,78 mg/l
methyl methacrylate	NOEC (Danio rerio (zebra fish)): 9,4 mg/l (OECD 210)
triethyleneglycol dimethacrylate	No data available.
N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
2-ethylhexyl acrylate	NOEC (Daphnia magna (Water flea), 21 d): 0,19 mg/l (US-EPA-method) EC 50 (Daphnia magna (Water flea), 21 d): 0,5 mg/l (US-EPA-method)
methyl methacrylate	NOEC (Daphnia magna (Water flea), 21 d): 37 mg/l (OECD 202 part 2)
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.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
2-ethylhexyl acrylate	NOEC (Desmodesmus subspicatus): 0,45 mg/l
methyl methacrylate	NOEC (Selenastrum capricornutum (green algae), 72 h): > 110 mg/l (OECD 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.

Toxicity to microorganisms

Product:	No data available.
Components:	
2-ethylhexyl acrylate	No data available.
methyl methacrylate	EC3 (Pseudomonas putida, 16 h): 100 mg/l (cell proliferation inhibition test, Bringmann-Kühn)
triethyleneglycol dimethacrylate	No data available.
N,N-bis-(2-hydroxypropyl)-p-toluidine	EC10 (30 min): > 1.995 mg/l (OECD Test Guideline 209)

12.2 Persistence and Degradability

Biodegradation

Product:	(monomer constituent), The product is biodegradable.
Components:	
2-ethylhexyl acrylate	70 - 80 % (15 d), Readily biodegradable
methyl methacrylate	94 % (14 d, OECD 301 C), easily biodegradable
triethyleneglycol dimethacrylate	85 % (28 d), Readily biodegradable
N,N-bis-(2-hydroxypropyl)-p-toluidine	39 % (28 d, OECD TG 301 B), Inherently biodegradable

BOD/COD Ratio

Product:	No data available.
Components:	
2-ethylhexyl acrylate	No data available.
methyl methacrylate	No data available.
triethyleneglycol dimethacrylate	No data available.
N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)
Components:	
2-ethylhexyl acrylate	Bioconcentration Factor (BCF): 282,4
methyl methacrylate	Accumulation in organisms is not expected due to the coefficient of distribution of n-octanol in water (log Pow).
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.

Partition Coefficient n-octanol / water (log Kow)

Product:	Log Kow: 0,7 (literature) (methyl methacrylate)
Components:	
2-ethylhexyl acrylate	Log Kow: 4,64 25 °C
methyl methacrylate	Log Kow: 1,38 20 °C (Measured)
triethyleneglycol dimethacrylate	Log Kow: 2,3 20 °C (OECD Test Guideline 117)
N,N-bis-(2-hydroxypropyl)-p-toluidine	Log Kow: 2,1 (OECD Test Guideline 107)

12.4 Mobility in soil:

Product	no specific test data available
Components:	
2-ethylhexyl acrylate	No data available.
methyl methacrylate	Binding to the solid soil phase, sediment or clarification sludge is not expected. The substance evaporates gradually into the atmosphere from the surface of the water. If the substance does get into the environment, it tends to remain in the compartment it was discharged into.
triethyleneglycol dimethacrylate	No data available.

N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available.

12.5 Results of PBT and vPvB assessment:

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:	
2-ethylhexyl acrylate	Non-classified vPvB substance Non-classified PBT substance
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

12.6 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:	
2-ethylhexyl acrylate	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.
methyl methacrylate	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.
triethyleneglycol dimethacrylate	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.
N,N-bis-(2-hydroxypropyl)-p-toluidine	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.

12.7 Other adverse effects:

Other hazards

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	This material and/or its container must be disposed of as hazardous waste.

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.
Contaminated 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.

SECTION 14: Transport information

14.1 UN number

ADR : UN 1866

RID : UN 1866

IMDG : UN 1866

IATA : UN 1866

14.2 UN proper shipping name

ADR : RESIN SOLUTION, STABILIZED

RID : RESIN SOLUTION, STABILIZED

IMDG : RESIN SOLUTION, STABILIZED

IATA : Resin solution, stabilized

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
Remarks	:	FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

IATA (Cargo aircraft only)

Packing instruction (cargo aircraft)	:	364
Packing instruction (LQ)	:	Y341
Packing group	:	II
Labels	:	3
Remarks	:	FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

IATA (Passenger and cargo aircraft)

Packing instruction (passenger aircraft)	:	353
Packing instruction (LQ)	:	Y341
Packing group	:	II
Labels	:	3
Remarks	:	FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

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 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU Regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities.

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: None present or none present in regulated quantities.

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

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

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities.

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

Chemical name	CAS-No.
methyl methacrylate	80-62-6

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: None present or none present in regulated quantities.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: None present or none present in regulated quantities.

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

Classification	Lower-tier Requirements	Upper-tier Requirements
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.		

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: None present or none present in regulated quantities.

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
2-ethylhexyl acrylate	103-11-7	25 - <30%
methyl methacrylate	80-62-6	20 - <30%

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	preregistered, registered or exempted

(REACH):	
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:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory

International regulations

Montreal protocol

Ozone Depletion Potential:

1,2,3-tributyl 2-hydroxypropane-1,2,3-tricarboxylate	No data available.	No data available.

Stockholm convention

1,2,3-tributyl 2-hydroxypropane-1,2,3-tricarboxylate	No data available.	Not applicable

Rotterdam convention

Not applicable

1,2,3-tributyl 2-hydroxypropane-1,2,3-tricarboxylate	No data available.

Kyoto protocol

1,2,3-tributyl 2-hydroxypropane-1,2,3-tricarboxylate	Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

ECTLV:	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
IR_OEL:	Ireland. OELVs, Schedule 1 (Code of Practice for Chemical Agents Regulations), as amended
ECTLV / STEL:	Short Term Exposure Limit (STEL):
ECTLV / TWA:	Time Weighted Average (TWA):
IR_OEL / STEL:	Short Term Exposure Limit (STEL):
IR_OEL / TWA:	Time Weighted Average (TWA):

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS -

Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Notes:

2-ethylhexyl acrylate	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'.
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'.

Key literature references and sources for data: No data available.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 as amended.	**Classification procedure**
Flammable liquids, Category 2	Bridging principles
Skin irritation, Category 2	Calculation method
Skin sensitizer, Category 1	Calculation method
Specific Target Organ Toxicity - Single Exposure, Category 3	Calculation method
Chronic hazards to the aquatic environment, Category 3	On basis of test data

Wording of the statements in section 2 and 3

H225	Highly flammable liquid and vapor.
H300	Fatal if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
H225	Highly flammable liquid and vapor.
H300	Fatal if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Training information: No data available.

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: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.