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® 115

Chemical name: Solution of an acrylic polymer in an acrylic acid ester

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: None known.

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.
Serious eye irritation	Category 2	H319: Causes serious eye 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.

2.2 Label Elements

Signal Words: Danger

Hazard Statement(s):

H225: Highly flammable liquid and vapor.
H315: Causes skin irritation.
H319: Causes serious eye 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/vapors/spray.
P264: Wash thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
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.
P337+P313: If eye irritation persists: Get medical advice/attention.
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:

methyl methacrylate
2-hydroxyethyl methacrylate
1,4-butanediol 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Solution of an acrylic polymer in an acrylic acid ester

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
methyl methacrylate	30 - <50%	80-62-6	201-297-1	01-2119452498-28;	Aquatic Toxicity (Acute): 1; Aquatic Toxicity (Chronic): 1	#
2-hydroxyethyl methacrylate	30 - <50%	868-77-9	212-782-2	01-2119490169-29;	Aquatic Toxicity (Acute): 1; Aquatic Toxicity (Chronic): 1	
1,4-butanediol dimethacrylate	1 - <3%	2082-81-7	218-218-1	01-2119967415-30;	Aquatic Toxicity (Acute): 1; Aquatic Toxicity (Chronic): 1	
N-Methyl-N-Hydroxyethyl-p-Toluidin	1 - <3%	2842-44-6		01-2120827830-56;	Aquatic Toxicity (Acute): 1; Aquatic Toxicity (Chronic): 1	
methacryloyloxyethyl phosphate	0,1 - <1%	52628-03-2	258-053-2	01-2119980575-25;	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
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
2-hydroxyethyl methacrylate	Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Skin Sens.: 1: 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: > 5.000 mg/kg	Note D
1,4-butanediol 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: > 3.000 mg/kg	None.
N-Methyl-N-Hydroxyethyl-p-Toluidin	Classification: Acute Tox.: 4: H302; Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; STOT SE: 3: H335; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: 2.000 mg/kg Acute toxicity, inhalation: None known. Acute toxicity, dermal: LD 50: > 2.000 mg/kg	None.
methacryloyloxyethyl phosphate	Classification: Flam. Liq.: 2: H225; Skin Corr.: 1A: H314; Eye Dam.: 1: H318; Skin Sens.: 1B: H317; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: > 2.000 mg/kg	None.

	Acute toxicity, inhalation**:** None known. Acute toxicity, dermal**:** None known.	

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. If skin irritation occurs consult 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. Call a physician immediately. Never give anything by mouth to an unconscious person.

Personal Protection for First-aid Responders: No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Excessive or prolonged exposure can cause the following: Headache. confusion Irritation Product has dermal defatting effect

Hazards: No data available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: No specific antidote known. Treat symptomatically.

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:	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:**	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: No data available.

Local/Total ventilation: No data available.

Safe handling advice: 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. Fire fighting must be carried out from a safe distance.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. Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)

Contact avoidance measures: No data available.

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. Keep only in the original container at temperature not exceeding 25 °CKeep away from direct sunlight.

Safe packaging materials: No data available.

7.3 Specific end use(s): No data available.

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 15 minutes		100 ppm	Ireland. OELVs, Schedule 1 (Code of 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
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

2-hydroxyethyl methacrylate	Workers	Inhalativ	4,9 mg/m3	Long-term - systemic effects

	Workers	Dermal	1,39 mg/kg/d	Long-term - systemic effects
	Consumers	Inhalativ	1,45 mg/m3	Long-term - systemic effects
	Consumers	Dermal	0,83 mg/kg/d	Long-term - systemic effects

1,4-butanediol dimethacrylate	Workers	Inhalativ	14,5 mg/m3	Long-term - systemic effects
	Workers	Dermal	4,2 mg/kg bodyweight/day	Long-term - systemic effects

methacryloyloxyethyl phosphate	Workers	Inhalativ	7,04 mg/m3	Long-term - systemic effects
	Workers	Dermal	1 mg/kg bw/day	Long-term - systemic effects
	general populace	Inhalativ	1,74 mg/m3	Long-term - systemic effects
	general populace	Dermal	0,5 mg/kg bw/day	Long-term - systemic effects

PNEC-Values

Remarks: PNEC-Values

Critical component	**Environmental compartment**	**PNEC-Values**	**Remarks**
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	

2-hydroxyethyl methacrylate	Fresh water	0,482 mg/l	
	freshwater sediment	3,79 mg/kg dry weight	
	marine water	0,0482 mg/l	
	marine water sediment	0,379 mg/kg dry weight	
	soil	0,476 mg/kg	
	sewage treatment plant (STP)	10 mg/l	
	Humans via the environment	0,83 mg/kg bw/day	

1,4-butanediol dimethacrylate	Fresh water	0,087 mg/l	
	marine water	0,0087 mg/l	
	sewage treatment plant (STP)	20 mg/l	
	soil	0,573 mg/kg	
	freshwater sediment	3,12 mg/kg	
	marine water sediment	0,312 mg/kg	

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

Individual protection measures, such as personal protective equipment

Eye/face protection:	Tightly fitting safety goggles
Hand Protection:	Material: butyl rubber gloves Break-through time: 60 min Glove thickness: 0,3 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:	if the limit values like TLV are exceeded, when vapours or aerosols occur Breathing apparatus in case of high concentrations Respirator with filter for organic vapour
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:	No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	ester-like
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	approx. 212 °F/100 °C (methyl methacrylate)
Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	12,5 %(V) (methyl methacrylate)
Explosive limit - lower:	2,1 %(V) at 10,5°C (MMA)
Flash Point:	50 °F/10 °C (methyl methacrylate)
Auto-ignition temperature:	No data available.
Decomposition Temperature:	No decomposition if used as directed.
pH:	approx. 6
Viscosity	
Dynamic viscosity:	approx. 250 mPa.s
Kinematic viscosity:	No data available.

Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Dissolution Rate:	No data available.
Partition coefficient (n-octanol/water):	No data available.
Dispersion Stability:	No data available.
Vapor pressure:	approx. 40 hPa (68 °F/20 °C) (methyl methacrylate)
Relative density:	No data available.
Density:	1,03 g/cm3 (73 °F/23 °C)
Bulk density:	No data available.
Relative vapor density:	> 1 68 °F/20 °C

9.2 Other information

Autoignition Temperature:	The substance or mixture is not classified as pyrophoric.
Impact sensitivity:	Not impact sensitive.

SECTION 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. 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

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:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	Headache. Dizziness.
Skin Contact:	May cause allergic skin reaction. May cause skin irritation.
Eye contact:	Causes serious eye irritation.
Ingestion:	No data available.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product:	Acute toxicity estimate: > 5.000 mg/kg (Calculation method)
Components:	
methyl methacrylate	LD 50 (Rat): > 5.000 mg/kg
2-hydroxyethyl methacrylate	LD 50 (Rat): > 5.000 mg/kg Own study
1,4-butanediol dimethacrylate	LD 50 (Rat): > 5.000 mg/kg Own test result.
N-Methyl-N-Hydroxyethyl-p-Toluidin	LD 50 (Rat): 2.000 mg/kg
methacryloyloxyethyl phosphate	LD 50 (Rat): > 2.000 mg/kg

Dermal

Product:	Acute toxicity estimate: > 5.000 mg/kg (Calculation method)
Components:	
methyl methacrylate	LD 50 (Rabbit): > 5.000 mg/kg
2-hydroxyethyl methacrylate	LD 50 (Rabbit): > 5.000 mg/kg (analogy)
1,4-butanediol dimethacrylate	LD 50 (Rabbit): > 3.000 mg/kg
N-Methyl-N-Hydroxyethyl-p-Toluidin	LD 50 (Rabbit): > 2.000 mg/kg
methacryloyloxyethyl phosphate	Not classified based on available information.

Inhalation

Product:	ATEmix: > 50 mg/l Vapour Not classified for acute toxicity based on available data.
Components:	
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
2-hydroxyethyl methacrylate	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
1,4-butanediol	Not toxic after single exposure; No labelling required, Vapour Not toxic

dimethacrylate	after single exposure; No labelling required, Dust and mist
N-Methyl-N-Hydroxyethyl-p-Toluidin	Not toxic after single exposure; Not toxic after single exposure, Vapour, Dust and mist
methacryloyloxyethyl phosphate	Not toxic after single exposure; Vapour, Not classified based on available information. Not toxic after single exposure; Dust and mist, Not classified based on available information.

Repeated dose toxicity

Product: No data available.

Components:

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
2-hydroxyethyl methacrylate	NOAEL (Rat, Oral, 7 Weeks): 100 mg/kg
1,4-butanediol dimethacrylate	NOAEL (Rat, Oral): 300 mg/kg
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	NOAEL (Rat(male and female), Oral): 100 mg/kg

Skin Corrosion/Irritation

Product: No data available.

Components:

methyl methacrylate	(Rabbit): non-irritant , 4 h (Human): Irritating.
2-hydroxyethyl methacrylate	non-irritant Category 2; H315 EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI
1,4-butanediol dimethacrylate	FDA 1959 Draize, occlusive (Rabbit): Not irritating , 24 h
N-Methyl-N-Hydroxyethyl-p-Toluidin	In vitro (Rabbit): Not irritant
methacryloyloxyethyl phosphate	OECD Test Guideline 404 (Rabbit): Corrosive , < 3 min

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

methyl methacrylate	Not irritating OECD 405, FDA 1959 Draize , Rabbit:
2-hydroxyethyl methacrylate	Slightly irritating Draize Test , Rabbit: Own study Eye irritant Category 2B (UN-GHS)
1,4-butanediol dimethacrylate	Not irritating OECD Test Guideline 405 , Rabbit: Own test result.
N-Methyl-N-Hydroxyethyl-p-Toluidin	Not irritant Not irritating. ,
methacryloyloxyethyl phosphate	Risk of serious damage to eyes.

Respiratory or Skin Sensitization

Product: No data available.

Components:

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

2-hydroxyethyl methacrylate	Buehler Test (Guinea Pig): Non sensitising Cases of sensitisation also observed in humans. May cause an allergic skin reaction. EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI Not classified for respiratory sensitization
1,4-butanediol dimethacrylate	Local Lymph Node Assay (LLNA), OECD Test Guideline 429 (Mouse): Sensitising Own test result.
N-Methyl-N-Hydroxyethyl-p-Toluidin	Skin sensitizer Not classified for respiratory sensitization
methacryloyloxyethyl phosphate	, OECD Test Guideline 429 (Mouse)Skin sensitizer Not classified for respiratory sensitization

Carcinogenicity

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

Components:

methyl methacrylate	Not classified Non-carcinogenic in inhalation and feeding studies carried out on rats, mice and dogs.
2-hydroxyethyl methacrylate	Not classified no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)
1,4-butanediol dimethacrylate	Not classified
N-Methyl-N-Hydroxyethyl-p-Toluidin	Not classified
methacryloyloxyethyl phosphate	Not classified

Germ Cell Mutagenicity

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

In vitro

Product: No data available.

Components:

methyl methacrylate	gene mutation (OECD 471): negative gene mutation (OECD 476): negative , Chinese hamster lung fibroblasts (V79) Micronucleus test (OECD 487): negative , human lymphocytes
2-hydroxyethyl methacrylate	gene mutation (OECD 476): negative CHO-cells (analogy) Cytogenetic Test (chromosome aberration) (OECD 473): positive Chinese hamster lung cells gene mutation (OECD 471): negative Based on available data, the classification criteria are not met.
1,4-butanediol dimethacrylate	gene mutation (OECD TG 471): negative
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	No data available.

In vivo

Product: No data available.

Components:

methyl methacrylate	gene mutation (Dominant lethal test) Inhalativ (Mouse): negative
2-hydroxyethyl methacrylate	Micronucleus test (OECD 474) (Rat, male): negative
1,4-butanediol dimethacrylate	Chromosomal aberration (OECD TG 474) Oral (Mouse): negative
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	No data available.

Reproductive toxicity

Product:	Contains no ingredient listed as toxic to reproduction (>0.1%).
Components:	
methyl methacrylate	Not classified No indications of toxic effects were observed in reproduction studies in animals. OECD 414 OECD 416 Oral
2-hydroxyethyl methacrylate	Not classified No indications of toxic effects were observed in reproduction studies in animals.
1,4-butanediol dimethacrylate	Not classified
N-Methyl-N-Hydroxyethyl-p-Toluidin	Not classified
methacryloyloxyethyl phosphate	Not classified

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
methyl methacrylate	Inhalation - vapor: Category 3 with respiratory tract irritation.
2-hydroxyethyl methacrylate	Not classified no evidence for hazardous properties
1,4-butanediol dimethacrylate	Not classified
N-Methyl-N-Hydroxyethyl-p-Toluidin	Inhalation - vapor: Category 3 with respiratory tract irritation.
methacryloyloxyethyl phosphate	Not classified

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
methyl methacrylate	Not classified
2-hydroxyethyl methacrylate	Not classified no evidence for hazardous properties
1,4-butanediol dimethacrylate	Not classified no evidence for hazardous properties
N-Methyl-N-Hydroxyethyl-p-Toluidin	Not classified
methacryloyloxyethyl phosphate	Not classified

Aspiration Hazard

Product:	No aspiration toxicity classification
Components:	
methyl methacrylate	Not classified
2-hydroxyethyl methacrylate	Not classified
1,4-butanediol dimethacrylate	Not classified
N-Methyl-N-Hydroxyethyl-p-Toluidin	Not classified
methacryloyloxyethyl phosphate	Not classified

11.2 Information on other hazards

Endocrine disrupting properties

Product:	No data available.
Components:	

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.;
2-hydroxyethyl 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.;
1,4-butanediol 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-Methyl-N-Hydroxyethyl-p-Toluidin	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.;
methacryloyloxyethyl phosphate	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: No data available.

Components:

methyl methacrylate	LC 50 (96 h): > 100 mg/l Expert judgement
2-hydroxyethyl methacrylate	LC 50 (Oryzias latipes (Orange-red killifish), 96 h): > 100 mg/l
1,4-butanediol dimethacrylate	LC 50 (Leuciscus idus melanotus, 48 h): 32,5 mg/l The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Own test result.
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): > 112 mg/l

Aquatic Invertebrates

Product: No data available.

Components:

methyl methacrylate	EC 50 (Daphnia magna (Water flea), 48 h): 69 mg/l
2-hydroxyethyl methacrylate	EC 50 (Daphnia magna (Water flea), 48 h): 380 mg/l
1,4-butanediol dimethacrylate	No data available.
N-Methyl-N-	EC 50 (Water Flea, 48 h): 7,03 mg/l

Hydroxyethyl-p-Toluidin	NOEC (Water Flea, 48 h): 4,6 mg/l
methacryloyloxyethyl phosphate	EC 50 (Daphnia magna (Water flea), 48 h): 68 mg/l NOEC (Daphnia magna (Water flea), 48 h): 50 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 201)
2-hydroxyethyl methacrylate	EC 50 (Selenastrum capricornutum (green algae), 72 h): 836 mg/l (OECD Test Guideline 201)
1,4-butanediol dimethacrylate	EC 50 (Desmodesmus subspicatus (green algae), 72 h): 9,79 mg/l (OECD 201) Own study
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	EC 50 (Pseudokirchneriella subcapitata (green algae), 72 h): > 120 mg/l (OECD Test Guideline 201)

Toxicity to microorganisms

Product:	No data available.
Components:	
methyl methacrylate	EC3 (Pseudomonas putida, 16 h): 100 mg/l (cell proliferation inhibition test, Bringmann-Kühn)
2-hydroxyethyl methacrylate	EC 50 (Pseudomonas fluorescens, 16 h): > 3.000 mg/l (DEV L8) Own study
1,4-butanediol dimethacrylate	NOEC (local activated sludge): 20 mg/l
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
methyl methacrylate	NOEC (Danio rerio (zebra fish)): 9,4 mg/l (OECD 210)
2-hydroxyethyl methacrylate	Trial not required for scientific reasons.
1,4-butanediol dimethacrylate	No data available.
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
methyl methacrylate	NOEC (Daphnia magna (Water flea), 21 d): 37 mg/l (OECD 202 part 2)
2-hydroxyethyl methacrylate	NOEC (Daphnia magna (Water flea), 21 d): 24,1 mg/l (OECD 202 part 2)
1,4-butanediol dimethacrylate	EC 10 (Daphnia magna, 21 d): 7,51 mg/l (OECD TG 211)
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
methyl methacrylate	NOEC (Selenastrum capricornutum (green algae), 72 h): > 110 mg/l (OECD 201)
2-hydroxyethyl methacrylate	NOEC (Selenastrum capricornutum (green algae), 72 h): 400 mg/l (OECD Test Guideline 201)
1,4-butanediol dimethacrylate	No data available.
N-Methyl-N-Hydroxyethyl-p-Toluidin	NOEC (Alga, 72 h): 10 mg/l
methacryloyloxyethyl phosphate	NOEC (Pseudokirchneriella subcapitata (green algae), 72 h): 30 mg/l (OECD Test Guideline 201)

Toxicity to microorganisms

Product:	No data available.
Components:	
methyl methacrylate	EC3 (Pseudomonas putida, 16 h): 100 mg/l (cell proliferation inhibition test, Bringmann-Kühn)
2-hydroxyethyl methacrylate	EC 50 (Pseudomonas fluorescens, 16 h): > 3.000 mg/l (DEV L8) Own study
1,4-butanediol dimethacrylate	NOEC (local activated sludge): 20 mg/l
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	No data available.

12.2 Persistence and Degradability

Biodegradation

Product:	(monomer constituent), The product is biodegradable.
Components:	
methyl methacrylate	94 % (14 d, OECD 301 C), easily biodegradable
2-hydroxyethyl methacrylate	84 % (28 d, OECD Test Guideline 301D) Own study, Readily biodegradable
1,4-butanediol dimethacrylate	84 % (28 d, OECD 310) Own study, Readily biodegradable
N-Methyl-N-Hydroxyethyl-p-Toluidin	22,7 % (28 d), Not readily degradable.
methacryloyloxyethyl phosphate	No data available.

BOD/COD Ratio

Product:	No data available.
Components:	
methyl methacrylate	No data available.
2-hydroxyethyl methacrylate	No data available.
1,4-butanediol dimethacrylate	No data available.
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.

methacryloyloxyethyl phosphate	No data available.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	no evidence for hazardous properties
Components:	
methyl methacrylate	Accumulation in organisms is not expected due to the coefficient of distribution of n-octanol in water (log Pow).
2-hydroxyethyl methacrylate	Accumulation in organisms is not expected due to the coefficient of distribution of n-octanol in water (log Pow).
1,4-butanediol dimethacrylate	Significant accumulation in organisms is not expected due to the coefficient of distribution of n-octanol in water (log Pow).
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:	Log Kow: No data available.
Components:	
methyl methacrylate	Log Kow: 1,38 20 °C (Measured)
2-hydroxyethyl methacrylate	Log Kow: 0,42 25 °C (OECD Test Guideline 107)
1,4-butanediol dimethacrylate	Log Kow: 3,1 (OECD Test Guideline 117) Own study
N-Methyl-N-Hydroxyethyl-p-Toluidin	Log Kow: 2,2 25 °C (OECD 117)
methacryloyloxyethyl phosphate	Log Kow: 1 - < 2,72 30 °C

12.4 Mobility in soil:

Product	no specific test data available
Components:	
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.
2-hydroxyethyl methacrylate	Very sparingly volatile from the aqueous phase. Binding to the solid soil phase, sediment or clarification sludge is not expected.
1,4-butanediol dimethacrylate	No data available.
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	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:	
methyl methacrylate	Non-classified vPvB substance Non-classified PBT substance
2-hydroxyethyl methacrylate	Non-classified vPvB substance Non-classified PBT substance

1,4-butanediol dimethacrylate	Non-classified vPvB substance Non-classified PBT substance
N-Methyl-N-Hydroxyethyl-p-Toluidin	No data available.
methacryloyloxyethyl phosphate	Non-classified vPvB substance, Non-classified PBT substance

12.6 Endocrine disrupting properties:

Product: No data available.

Components:

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.
2-hydroxyethyl 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.
1,4-butanediol 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-Methyl-N-Hydroxyethyl-p-Toluidin	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.
methacryloyloxyethyl phosphate	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: 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.

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. 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
methyl methacrylate	80-62-6	30 - <50%
2-hydroxyethyl methacrylate	868-77-9	30 - <50%
1,4-butanediol dimethacrylate	2082-81-7	1,0 - <3%

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.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	HSR002662, Surface Coatings and Colorants (Flammable) Group Standard 2006

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
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:

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'.
2-hydroxyethyl 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	On basis of test data
Skin irritation, Category 2	Calculation method
Serious eye irritation, Category 2	On basis of test data
Skin sensitizer, Category 1	On basis of test data
Specific Target Organ Toxicity - Single Exposure, Category 3	Calculation method

Wording of the statements in section 2 and 3

H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Training information: No data available.

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.