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

1.1. Product identifier

UV repair resin, extra-low viscosity

Further trade names

UV-Reparaturharz, extra dünnflüssig
Résine de réparation UV, très liquide
Resina de reparación UV, baja viscosidad

UFI: ECG3-T7E6-3UP6-U34V

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

Use of the substance/mixture

UV Windscreen adhesive

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	PMA/TOOLS GmbH
Street:	Siemensring 42
Place:	D-47877 Willich - Germany
Telephone:	+49 2154 922230
E-mail:	info@pma-tools.de
Contact person:	Labor
E-mail:	msds@pma-tools.de (Please DO NOT use for requesting Safety Data Sheets.)
Internet:	www.pma-tools.de
Responsible Department:	Laboratory

1.4. Emergency telephone number:

Telephone number of the company in case of emergencies (24 h):
+49 (0) 700 / 24 112 112 (PMR)
+1 872 5888271 (PMR)

Emergency information services / official advisory body:
<UK> National Poisons Information Service (24 h): 0870 600 6266 (UK only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

2-hydroxyethyl methacrylate
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
acrylic acid, prop-2-enoic acid

Signal word: Warning

Pictograms:

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing and eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of the following substances with non-hazardous additions.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
868-77-9	2-hydroxyethyl methacrylate			55 - < 60 %
	212-782-2	607-124-00-X	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
7534-94-3	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate			20 - < 25 %
	231-403-1			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Chronic 3; H315 H319 H335 H412			
79-10-7	acrylic acid, prop-2-enoic acid			1 - < 5 %
	201-177-9	607-061-00-8	01-2119452449-31	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 2; H226 H332 H312 H302 H314 H335 H400 H411			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
868-77-9	212-782-2	2-hydroxyethyl methacrylate	55 - < 60 %
	dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5564 mg/kg		
7534-94-3	231-403-1	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	20 - < 25 %
	dermal: LD50 = > 3000 mg/kg; oral: LD50 = > 2000 mg/kg		
79-10-7	201-177-9	acrylic acid, prop-2-enoic acid	1 - < 5 %
	inhalation: LC50 = > 5,1 mg/l (vapours); inhalation: LC50 = 1,5 mg/l (dusts or mists); dermal: LD50 = 1100 mg/kg; oral: LD50 = 500 mg/kg STOT SE 3; H335: >= 1 - 100		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Never give anything by mouth to an unconscious person or a person with cramps.
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). When in doubt or if symptoms are observed, get medical advice.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Carbon dioxide (CO2). Extinguishing powder. Water spray jet.
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2), Phosphorus oxides

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Clear contaminated areas thoroughly. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

SECTION 7: Handling and storage
See section 8. Use personal protection equipment.
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. See section 8.
Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse. Used working clothes should not be worn outside the work area. Street clothing should be stored separately from work clothing.

Further information on handling

See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep container dry.

Hints on joint storage

Do not store together with: P8 OXIDISING LIQUIDS AND SOLIDS. Explosives. Radioactive substances. Infectious substances. Food and feedingstuffs. Peroxides.

Further information on storage conditions

Protect against: Light. UV-radiation/sunlight. Heat. Cold. Humidity
Recommended storage temperature: 20 °C

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
79-10-7	Acrylic acid	10	29		TWA (8 h)	WEL
		20	59		STEL (1 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
868-77-9	2-hydroxyethyl methacrylate			
Consumer DNEL, long-term		dermal	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,9 mg/m³
Consumer DNEL, long-term		oral	systemic	0,83 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	1,3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	4,9 mg/m³
79-10-7	acrylic acid, prop-2-enoic acid			
Worker DNEL, long-term		inhalation	local	30 mg/m³
Worker DNEL, acute		inhalation	local	30 mg/m³
Worker DNEL, acute		dermal	local	1 mg/cm²
Consumer DNEL, acute		dermal	local	1 mg/cm²
Consumer DNEL, acute		inhalation	local	3,6 mg/m³
Consumer DNEL, long-term		inhalation	local	3,6 mg/m³

PNEC values

CAS No	Substance	
Environmental compartment		Value
868-77-9	2-hydroxyethyl methacrylate	
Freshwater		0,482 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,482 mg/l
Marine water (intermittent releases)		1 mg/l
Freshwater sediment		3,79 mg/l
Marine sediment		3,79 mg/l
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,476 mg/l
79-10-7	acrylic acid, prop-2-enoic acid	
Freshwater		0,003 mg/l
Marine water		0,0003 mg/l
Freshwater sediment		0,0236 mg/kg
Marine sediment		0,00236 mg/kg
Secondary poisoning		30 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,9 mg/l
Soil		1 mg/kg

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles. EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Wear suitable gloves. (EN 374).
Recommended material: Butyl caoutchouc (butyl rubber)
Thickness of the glove material: >= 0,5 mm
Breakthrough time:: Index No. 2, > 30 Min. / Index No. 6, > 480 Min.
Replace when worn.

Skin protection

Use personal protection equipment.
When handling with chemical substances, protective clothing with CE-labels including the four control digits

must be worn. (89/686/EWG).
Recommended protective clothing articles: compliant EN 14605 / EN 13982

Respiratory protection

Usually no personal respirative protection necessary.
Respiratory protection necessary at: exceeding exposure limit values. generation/formation of aerosols. Generation/formation of mist
Suitable respiratory protection apparatus: gas filtering equipment (EN 141). Filtering device (full mask or mouthpiece) with filter: A / P2-3
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Thermal hazards

Exothermic reaction with: UV-radiation/sunlight

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid (viskos)
Colour:	colourless
Odour:	characteristic
Odour threshold:	No data available

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

Flammability

Solid/liquid:	not determined

Explosive properties

nicht bestimmt

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined

Self-ignition temperature

Solid:	not determined
Gas:	not determined
Decomposition temperature:	not determined
pH-Value:	not applicable
Viscosity / dynamic:	20 mPa·s
Water solubility:	practically insoluble

Solubility in other solvents

nicht bestimmt

Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	not determined

Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion: Not sustaining combustion

Oxidizing properties

nicht bestimmt

Other safety characteristics

Evaporation rate: not determined

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Warning: Hydrolysis -> Formation of: Methanol

Hazardous polymerisation: Protect from direct sunlight. Can polymerise exothermically if heated, exposed to air, sunlight or by addition or free radical initiators.

10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

See SECTION 10: Stability and reactivity (10.6)

10.4. Conditions to avoid

Protect against: Light. UV-radiation/sunlight. heat. (> 60 °C). Cold. Humidity

10.5. Incompatible materials

Materials to avoid: Oxidising agent, strong. Alkali (lye). Amines.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO_2), Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 5564 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 > 5000 mg/kg	Rabbit	ECHA Dossier	
7534-94-3	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate				
	oral	LD50 > 2000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 > 3000 mg/kg	Rabbit	ECHA Dossier	
79-10-7	acrylic acid, prop-2-enoic acid				
	oral	LD50 500 mg/kg	Rat	REACH Dossier	OECD 401
	dermal	LD50 1100 mg/kg	Rabbit	REACH Dossier	OECD 402
	inhalation (4 h) vapour	LC50 > 5,1 mg/l	Rat	REACH Dossier	OECD 403
	inhalation (4 h) dust/mist	LC50 1,5 mg/l			ATE

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (2-hydroxyethyl methacrylate)
sensitising
People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
No experimental indications of in vitro mutagenicity exist.
The statement is derived from the properties of the single components.

STOT-single exposure

May cause respiratory irritation. (exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate; acrylic acid, prop-2-enoic acid)

STOT-repeated exposure

Based on available data, the classification criteria are not met.
Acrylic acid:
NOAEL(C): 40 mg/kg (90 d) Rat. Subchronic oral toxicity
LOAEL(C): 0,015 mg/ L (90 d) Rat. subchronic inhalation toxicity
2-Hydroxyethylmethacrylat: NOAEL(C): 30 mg/ kg (90 d, Rat)
Subchronic oral toxicity

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
868-77-9	2-hydroxyethyl methacrylate						
	Acute fish toxicity	LC50	> 100 mg/l	96 h	Oryzias latipes (Ricefish)	ECHA Dossier	OECD 203
	Acute algae toxicity	ErC50	836 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	OECD 201
	Acute crustacea toxicity	EC50	380 mg/l	48 h	Daphnia magna (Big water flea)	ECHA Dossier	OECD 202
	Crustacea toxicity	NOEC	24,1 mg/l	21 d	Daphnia magna (Big water flea)	ECHA Dossier	
	Acute bacteria toxicity	EC50	8560 mg/l ( )	3 h		ECHA Dossier	TTC test (DEV L3)
7534-94-3	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate						
	Acute fish toxicity	LC50	1,79 mg/l	96 h	Danio rerio (zebrafish)	Study report (2001)	OECD 203
	Acute algae toxicity	ErC50	2,66 mg/l	96 h	Pseudokirchneriella subcapitata	Study report (2006)	OECD 201
	Acute crustacea toxicity	EC50	> 2,57 mg/l	48 h	Daphnia magna (Big water flea)	Study report (2010)	OECD 202
	Crustacea toxicity	NOEC	0,233 mg/l	21 d	Daphnia magna (Big water flea)	Study report (2011)	OECD 211
79-10-7	acrylic acid, prop-2-enoic acid						
	Acute fish toxicity	LC50	27 mg/l	96 h	Onchorhynchus mykiss		OECD 210
	Acute algae toxicity	ErC50	0,13 mg/l	72 h	Scenedesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50	95 mg/l	48 h	Daphnia magna		OECD 201
	Fish toxicity	NOEC	>= 10,1 mg/l	45 d	Orzyias latipes		
	Crustacea toxicity	NOEC	19 mg/l	21 d	Daphnia magna (Big water flea)		EPA OTS 797.1330

12.2. Persistence and degradability

Readily biodegradable (according to OECD criteria).

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
868-77-9	2-hydroxyethyl methacrylate			
	OECD 301C - Aerobic biological treatment	92 - 100 %	14	
	Readily biodegradable (according to OECD criteria).			
7534-94-3	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate			
	OECD 310 (2006), EN ISO 14593 (1999)	70 %	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
79-10-7	acrylic acid, prop-2-enoic acid			
	OECD 301D/ EEC 92/69/V, C.4-E	81 %	28	
	Readily biodegradable (according to OECD criteria).			
	OECD 302B	100 %	28	
	Evidence for inherent biodegradability.			
	OECD 301C	68 %	28	REACH Dossier
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
868-77-9	2-hydroxyethyl methacrylate	0,47
7534-94-3	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	5,09
79-10-7	acrylic acid, prop-2-enoic acid	0,46

BCF

CAS No	Chemical name	BCF	Species	Source
868-77-9	2-hydroxyethyl methacrylate	1,34 - 1,54		McGraw Hill
7534-94-3	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	1060		SIDS Initial Assessm
79-10-7	acrylic acid, prop-2-enoic acid	3,162		Quantitative structure-activity relationship (QSAR)

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented. The allocation of waste identity numbers/waste descriptions must be

carried out according to the EEC, specific to the industry and process. Recommendation: EAK 080409

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: not applicable

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.1. UN number or ID number: not applicable

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

14.1. UN number or ID number: not applicable

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: not applicable

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

SECTION 6: Accidental release measures
SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Directive 2010/75/EU on industrial emissions:	No information available.
Directive 2004/42/EC on VOC in paints and varnishes:	No information available.
Information according to Directive 2012/18/EU (SEVESO III):	E1 Hazardous to the Aquatic Environment

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.
Water hazard class (D):	1 - slightly hazardous to water

Additional information

TRGS 401: Dermal

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s):
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
ATE: Acute Toxicity Estimate.
AwSV: Anlagenverordnung wassergefährdender Stoffe (Regulation on facilities handling substances dangerous to water).
BGI: Berufsgenossenschaftliche Informationen (trade association information).
BGR: Berufsgenossenschaftliche Regeln (trade association regulation).
CAS: Chemical Abstracts Service.
CEN: Comité Européen de Normalisation European (Committee for Standardization).
CLP: Classification, Labelling and Packaging of substances and mixtures (REGULATION (EC) No 1272/2008).
DIN: Deutsches Institut für Normung (German institute for standardization).
DMEL: Derived Minimum Effect Level.
DNEL: Derived No Effect Level.
EC: European Community.
EC50: Half maximal effective concentration.
ECHA: European Chemicals Agency.
EG: Europäische Gemeinschaft (European Community).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norms.
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA-DGR: International Air Transport Association - Dangerous Goods Regulations.
IBC: Intermediate Bulk Container.
IC50 / ErC50: Inhibitory concentration, 50 %.
ICAO-TI: International Civil Aviation Organization - Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Code for Dangerous Goods.

ISO: International Organization for Standardization.
IUPAC: International Union for Pure and Applied Chemistry.
LC50: Lethal concentration, 50 %.
LD50: Lethal dose, 50 %.
log Kow (Pow): Partition coefficient n-octanol/water.
LQ: Limited Quantities.
MARPOL: International Convention for the Prevention of Marine Pollution from Ships.
OECD: Organisation for Economic Co-operation and Development.
PBT: persistent, bioaccumulative and toxic.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006).
RID: Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulation concerning the International Carriage of Dangerous Goods by Rail).
SVHC: Substances of Very High Concern.
STOT - RE: Specific Target Organ Toxicity - Repeated Exposure.
STOT - SE: Specific Target Organ Toxicity - Single Exposure.
TRGS: Technische Regel für Gefahrstoffe (technical guideline for the handling of hazardous materials).
UFI: Unique Formula Identifier.
UN: Untited Nations.
VOC: Volatile organic compounds.
vPvB: very persistent and very bioaccumulative.
WGK: Wassergefährdungsklasse (water hazard class).

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)