

UV Repair Resin

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

UV Repair Resin

Further trade namesUV-Reparaturharz
Résine de réparation UV
Resina de reparación UV

UFI: 6JDD-9VYW-8YKN-EQH4

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 Dam. 1; H318
Skin Sens. 1; H317
STOT SE 3; H335
Aquatic Acute 1; H400
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate)
2-hydroxyethyl methacrylate
acrylic acid, prop-2-enoic acid
maleic acid
tert-butyl perbenzoate

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Signal word: Danger**Pictograms:****Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing vapour/Aerosol.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.

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.

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate)			45 - < 50 %
	227-561-6		01-2119957862-25	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, STOT SE 3, Aquatic Chronic 1; H315 H319 H317 H335 H410			
868-77-9	2-hydroxyethyl methacrylate			20 - < 25 %
	212-782-2	607-124-00-X	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
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			
7473-98-5	2-hydroxy-2-methylpropiophenone			1 - < 5 %
	231-272-0		01-2119472306-39	
	Acute Tox. 4, Aquatic Chronic 3; H302 H412			
110-16-7	maleic acid			< 1 %
	203-742-5	607-095-00-3		
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H302 H315 H319 H317 H335			
614-45-9	tert-butyl perbenzoate			< 1 %
	210-382-2			
	Self-react. C, Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1; H242 H332 H315 H317 H400			

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	
5888-33-5	227-561-6	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate)	45 - < 50 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = 4890 mg/kg	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	20 - < 25 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5564 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	
7473-98-5	231-272-0	2-hydroxy-2-methylpropiophenone	1 - < 5 %
		oral: LD50 = 1694 mg/kg	
110-16-7	203-742-5	maleic acid	< 1 %
		oral: ATE = 500 mg/kg Skin Sens. 1; H317: >= 0,1 - 100	
614-45-9	210-382-2	tert-butyl perbenzoate	< 1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists)	

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.

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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. If unconscious but breathing normally, place in recovery position and seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. 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), Gases/vapours, toxic

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).
Remove all sources of ignition.

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

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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.

Keep away from food, drink and animal feedingstuffs.

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

No special measures are necessary.

Further information on storage conditions

Protect against: Light. UV-radiation/sunlight. Heat. Cold. Humidity

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/m ³	fibres/ml	Category	Origin
79-10-7	Acrylic acid	10	29		TWA (8 h)	WEL
		20	59		STEL (1 min)	WEL

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate)			
Worker DNEL, long-term		dermal	systemic	1,39 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	4,9 mg/m ³
Consumer DNEL, long-term		oral	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,45 mg/m ³
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/m ³
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/m ³
79-10-7	acrylic acid, prop-2-enoic acid			
Worker DNEL, long-term		inhalation	local	30 mg/m ³
Worker DNEL, acute		inhalation	local	30 mg/m ³
Worker DNEL, acute		dermal	local	1 mg/cm ²
Consumer DNEL, acute		dermal	local	1 mg/cm ²
Consumer DNEL, acute		inhalation	local	3,6 mg/m ³
Consumer DNEL, long-term		inhalation	local	3,6 mg/m ³
7473-98-5	2-hydroxy-2-methylpropiophenone			
Worker DNEL, long-term		dermal	systemic	1 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	3,5 mg/m ³
Consumer DNEL, long-term		oral	systemic	0,4 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,9 mg/m ³

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PNEC values

CAS No	Substance	Value
Environmental compartment		
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate)	
Freshwater		0,001 mg/l
Freshwater (intermittent releases)		0,007 mg/l
Marine water		0 mg/l
Freshwater sediment		0,145 mg/kg
Marine sediment		0,015 mg/kg
Soil		0,029 mg/kg
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
7473-98-5	2-hydroxy-2-methylpropiophenone	
Freshwater		0,002 mg/l
Freshwater (intermittent releases)		0,019 mg/l
Marine water		0 mg/l
Freshwater sediment		0,009 mg/kg
Marine sediment		0,001 mg/kg
Soil		0,001 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

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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: $\geq 0,5$ 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 respiratory protection necessary. Provide adequate ventilation as well as local exhaustion at critical locations.

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. Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
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:	> 100 °C

Explosive properties

not explosive according to EU A.14

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	No data available

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Decomposition temperature:	No data available
pH-Value:	not applicable
Viscosity / dynamic: (at 25 °C)	100 mPa·s
Viscosity / kinematic:	No data available
Water solubility:	practically insoluble
Solubility in other solvents No data available	
Partition coefficient n-octanol/water:	not determined
Density (at 25 °C):	1,1 g/cm ³
Particle characteristics:	not applicable

9.2. Other information**Other safety characteristics**

Solvent content: 0 %

Further Information

No information available.

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

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Exothermic reaction with: UV-radiation/sunlight

10.4. Conditions to avoid

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

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, 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

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate)				
	oral	LD50 mg/kg	4890	Rat	
	dermal	LD50 mg/kg	> 5000	Rabbit	
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 mg/kg	5564	Rat	ECHA Dossier
	dermal	LD50 mg/kg	> 5000	Rabbit	ECHA Dossier
79-10-7	acrylic acid, prop-2-enoic acid				
	oral	LD50 mg/kg	500	Rat	REACH Dossier
	dermal	LD50 mg/kg	1100	Rabbit	REACH Dossier
	inhalation (4 h) vapour	LC50 mg/l	> 5,1	Rat	REACH Dossier
	inhalation (4 h) dust/mist	LC50	1,5 mg/l		ATE
7473-98-5	2-hydroxy-2-methylpropiophenone				
	oral	LD50 mg/kg	1694	Rat	
110-16-7	maleic acid				
	oral	ATE mg/kg	500		
614-45-9	tert-butyl perbenzoate				
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate); 2-hydroxyethyl methacrylate; maleic acid; tert-butyl perbenzoate)

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.

STOT-single exposure

May cause respiratory irritation. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate); acrylic acid, prop-2-enoic acid)

STOT-repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

Dermal, inhalation

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Specific effects in experiment on an animal

No information available.

Practical experience

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**

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate)					
	Acute fish toxicity	LC50 1,8 mg/l	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50 2,7 mg/l	96 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 1,1 mg/l	48 h	Daphnia magna (Big water flea)		
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)
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	Oryzias latipes		
	Crustacea toxicity	NOEC 19 mg/l	21 d	Daphnia magna (Big water flea)		EPA OTS 797.1330
7473-98-5	2-hydroxy-2-methylpropiophenone					
	Acute fish toxicity	LC50 > 10 - 100 mg/l	96 h	Fish		
	Acute algae toxicity	ErC50 > 10 - 100 mg/l	72 h	Algae		
	Acute crustacea toxicity	EC50 > 10 - 100 mg/l	48 h	Crustacea		

12.2. Persistence and degradability

not determined

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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).			
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

not determined

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
868-77-9	2-hydroxyethyl methacrylate	0,47
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
79-10-7	acrylic acid, prop-2-enoic acid	3,162		Quantitative structure-activity relationship (QSAR)

12.4. Mobility in soil

not determined

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. Avoid release to the environment.

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

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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

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate), acrylic acid, prop-2-enoic acid)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

-

Marine transport (IMDG)

14.1. UN number or ID number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate), acrylic acid, prop-2-enoic acid)

14.3. Transport hazard class(es):

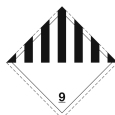
9

14.4. Packing group:

III

Hazard label:

9



Special Provisions:

274 335 969

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylacrylate (Isobornyl acrylate), acrylic acid, prop-2-enoic acid)

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14.3. Transport hazard class(es):

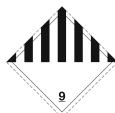
9

14.4. Packing group:

III

Hazard label:

9



Special Provisions:

A97 A158 A197 A215

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y964

Excepted quantity:

E1

IATA-packing instructions - Passenger:

964

IATA-max. quantity - Passenger:

450 L

IATA-packing instructions - Cargo:

964

IATA-max. quantity - Cargo:

450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

Yes

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

Other applicable information

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:

0,0 %

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.

Water hazard class (D):

2 - obviously hazardous to water

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

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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: Untitled 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.
H242	Heating may cause a fire.

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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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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.)