

**VILLACRYL H RAPID LIQUID**

Creation date	08th August 2023	Version	2.0
Revision date			

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

**1.1. Product identifier**  
Substance / mixture VILLACRYL H RAPID LIQUID mixture  
Number V110L  
UFI HF90-M0JV-N00W-KY39  
Other mixture names

UFI: HF90-M0JV-N00W-KY39, VILLACRYL H RAPID liquid 10 ml - V110L06  
UFI: HF90-M0JV-N00W-KY39, VILLACRYL H RAPID liquid 1l - V110L02  
UFI: HF90-M0JV-N00W-KY39, VILLACRYL H RAPID liquid 400 ml- V110L04

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**

Liquid component of heat-curing acrylic resin for denture bases VILLACRYL H Rapid. For professional use only.

**Main intended use**

PC-MED-OTH Other medical devices

**The use descriptors**

PW Widespread use by professional workers

**Mixture uses advised against**

The product should not be used in ways other than those referred in Section 1.

**1.3. Details of the supplier of the safety data sheet****Supplier**

Name or trade name	Everall7 Sp. z o.o.
Address	Augustówka 14, Warszawa , 02-981 Poland
Identification number (CRN)	002028511
VAT Reg No	PL5210124886
Phone	+48 22 858 82 72
E-mail	info@everall7.pl
Web address	everall7.pl

**Competent person responsible for the safety data sheet**

Name	Everall7 Sp. z o.o.
E-mail	info@everall7.pl

**1.4. Emergency telephone number**

European emergency number: 112

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Flam. Liq. 2, H225  
Skin Irrit. 2, H315  
Skin Sens. 1B, H317  
Eye Irrit. 2, H319  
STOT SE 3, H335

**Most serious adverse physico-chemical effects**

Highly flammable liquid and vapour.

**Most serious adverse effects on human health and the environment**

Causes skin irritation. May cause respiratory irritation. May cause an allergic skin reaction. Causes serious eye irritation.

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### 2.2. Label elements

#### Hazard pictogram



#### Signal word

Danger

#### Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves.
P370+P378	In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture.

#### Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 607-035-00-6 CAS: 80-62-6 EC: 201-297-1	methyl methacrylate	<95	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	1, 2
Index: 607-071-00-2 CAS: 97-63-2 EC: 202-597-5	ethyl methacrylate	>3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335	1
CAS: 2082-81-7 EC: 218-218-1 Registration number: 01-2119967415-30-XXXX	2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester	>3	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 STOT SE 3, H335	

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**Notes**

- 1 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 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".
- 2 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

**If on skin**

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

**If swallowed**

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

**If inhaled**

May cause respiratory irritation.

**If on skin**

May cause an allergic skin reaction.

**If in eyes**

Causes serious eye irritation.

**If swallowed**

Irritation, nausea.

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

Symptomatic treatment.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

**Unsuitable extinguishing media**

Water - full jet.

**5.2. Special hazards arising from the substance or mixture**

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

**5.3. Advice for firefighters**

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

#### 6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

Content	Packaging type	Material of package
1 l	bottle	HDPE
400 ml	bottle	HDPE
10 ml	bottle	GL

Storage class 3 - Flammable liquids

Storage temperature min 5 °C, max 25 °C

#### The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

#### 7.3. Specific end use(s)

not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### European Union

#### Commission Directive 2009/161/EU

Substance name (component)	Type	Value
methyl methacrylate (CAS: 80-62-6)	OEL 8 hours	50 ppm
	OEL 15 minutes	100 ppm

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### DNEL

<b>2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester</b>					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	14.5 mg/m <sup>3</sup>	Chronic effects systemic	Toxicity test	ECHA
Consumers	Inhalation	4.3 mg/m <sup>3</sup>	Chronic effects systemic	Toxicity test	ECHA
Workers	Dermal	4.2 mg/kg bw/day	Chronic effects systemic	Toxicity test	ECHA
Consumers	Dermal	2.5 mg/kg bw/day	Chronic effects systemic	Toxicity test	ECHA
Consumers	Oral	2.5 mg/kg bw/day	Chronic effects systemic	Toxicity test	ECHA

<b>ethyl methacrylate</b>					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	370.5 mg/m <sup>3</sup>	Chronic effects systemic	Experimentally	ECHA
Workers	Inhalation	267 mg/m <sup>3</sup>	Chronic effects local	Experimentally	ECHA
Workers	Dermal	10.8 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA
Consumers	Inhalation	76 mg/m <sup>3</sup>	Chronic effects systemic	Experimentally	ECHA
Consumers	Inhalation	189.8 mg/m <sup>3</sup>	Chronic effects local	Experimentally	ECHA
Consumers	Dermal	6.5 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA

<b>methyl methacrylate</b>					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	348.4 mg/m <sup>3</sup>	Chronic effects systemic	Toxicity test	ECHA
Workers	Inhalation	208 mg/m <sup>3</sup>	Chronic effects local		ECHA
Workers	Inhalation	416 mg/m <sup>3</sup>	Acute effects local	Toxicity test	ECHA
Workers	Dermal	13.67 mg/kg bw/day	Chronic effects systemic	Toxicity test	ECHA
Workers	Dermal	1.5 mg/cm <sup>2</sup>	Chronic effects local	Toxicity test	ECHA
Workers	Dermal	1.5 mg/cm <sup>2</sup>	Acute effects local	Toxicity test	ECHA
Consumers	Inhalation	74.3 mg/m <sup>3</sup>	Chronic effects systemic	Toxicity test	ECHA
Consumers	Inhalation	104 mg/m <sup>3</sup>	Chronic effects local	Toxicity test	ECHA
Consumers	Inhalation	208 mg/m <sup>3</sup>	Acute effects local	Toxicity test	ECHA
Consumers	Dermal	8.2 mg/kg bw/day	Chronic effects systemic	Toxicity test	ECHA
Consumers	Dermal	1.5 mg/cm <sup>2</sup>	Acute effects local	Toxicity test	ECHA
Consumers	Oral	8.2 mg/kg bw/day	Chronic effects systemic	Toxicity test	ECHA
Consumers	Dermal	1.5 mg/cm <sup>2</sup>	Chronic effects local		ECHA

### PNEC

<b>2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester</b>			
Route of exposure	Value	Value determination	Source
Drinking water	43.5 µg/l	Experimentally	ECHA

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2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester			
Route of exposure	Value	Value determination	Source
Water (intermittent release)	97.9 µg/l	Experimentally	ECHA
Marine water	4.35 µg/l	Experimentally	ECHA
Microorganisms in sewage treatment	20 mg/l	Experimentally	ECHA
Freshwater sediment	3.12 mg/kg of dry substance of sediment	Experimentally	ECHA
Sea sediments	312 µg/kg of dry substance	Experimentally	ECHA
Soil (agricultural)	573 µg/kg of dry substance	Experimentally	ECHA

ethyl methacrylate			
Route of exposure	Value	Value determination	Source
Drinking water	1.8 mg/l	Experimentally	ECHA
Water (intermittent release)	1.8 mg/l	Experimentally	ECHA
Marine water	1.8 mg/l	Experimentally	ECHA
Microorganisms in sewage treatment	100 mg/l	Experimentally	ECHA
Freshwater sediment	40 mg/kg of dry substance of sediment	Experimentally	ECHA
Soil (agricultural)	1.47 mg/kg of dry substance of soil	Experimentally	ECHA

methyl methacrylate			
Route of exposure	Value	Value determination	Source
Drinking water	940 µg/l	Experimentally	ECHA
Water (intermittent release)	690 µg/l	Experimentally	ECHA
Marine water	94 mg/kg	Experimentally	ECHA
Microorganisms in sewage treatment	10 mg/l	Experimentally	ECHA
Freshwater sediment	10.2 mg/kg of dry substance of sediment	Experimentally	ECHA
Sea sediments	1.02 mg/kg of dry substance of sediment	Experimentally	ECHA
Soil (agricultural)	1.48 mg/kg of dry substance of soil	Experimentally	ECHA

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles.

#### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

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**Respiratory protection**

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

**Thermal hazard**

Data not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Colour	colourless
Odour	characteristic for esters of methacrylic acid
Melting point/freezing point	-48.2 °C
Boiling point or initial boiling point and boiling range	>100 °C
Flammability	flammable
Lower and upper explosion limit	
bottom	2.1 %
upper	12.5 %
Flash point	10 °C
Auto-ignition temperature	430 °C
Decomposition temperature	>50 °C
pH	data not available
Kinematic viscosity	data not available
Solubility in water	15.9 g/l
Partition coefficient n-octanol/water (log value)	1.38
Vapour pressure	38.7 hPa
Density and/or relative density	
Density	940 g/cm <sup>3</sup> (nanoform)
Relative vapour density	>1 w 20oC
Particle characteristics	data not available
Form	liquid
data not available	

**9.2. Other information**

none

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

**10.2. Chemical stability**

The product is stable under normal conditions. The product is stable in normal conditions of use and storage. Liquid is stabilized by hydroquinone (CAS no. 123-31-9). Nevertheless, the occurrence of self-polymerization reaction is possible after the expiry date, if the storage temperature is exceeded significantly or in case of direct and strong influence of UV radiation

**10.3. Possibility of hazardous reactions**

Uncontrolled polymerization reaction in the presence of factors which initiate occurrence of free radicals. The polymerization reaction is exothermic (heat releasing) and in uncontrolled conditions proceed very vigorous.

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### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. The usual precautions used for chemical products should be respected. Keep away from temperatures exceeding 40°C, direct sunlight and heat sources.

### 10.5. Incompatible materials

Protect against strong acids and alkalis, as well as against oxidizing substances. Strong oxidants, substances that generate free radicals, reducing substances, heavy metal ions, heat sources

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.

2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD <sub>50</sub>	OECD 401	10.066 mg/kg bw/day		Rat (Wistar)	F/M	Experimentally	ECHA
Oral	LD <sub>50</sub>	OECD 401	9.83 ml/kg bw		Rat (Wistar)	F/M	Experimentally	ECHA

ethyl methacrylate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD <sub>50</sub>		13424 mg/kg		Rabbit		Experimentally	ECHA
Inhalation	LC <sub>50</sub>	OECD 403	55 mg/l	4 hours	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Dermal	LD <sub>50</sub>		>10 ml/kg bw		Rabbit		Literary studies	ECHA

methyl methacrylate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD <sub>50</sub>		7900 mg/kg		Rat (Rattus norvegicus)		Mortal	ECHA Dossier
Inhalation	LC <sub>50</sub>		29.8 mg/l	4 hours	Rat (Rattus norvegicus)			ECHA Dossier
Dermal	LD <sub>50</sub>	OECD 402	>5000 mg/kg	24 hours	Rabbit	M		ECHA Dossier
Oral	NOAEL		7900 mg/kg bw/day		Rat (Rattus norvegicus)		Mortal	ECHA
Inhalation	NOAEL		29.8 mg/l	4 hours	Rat (Rattus norvegicus)			ECHA Dossier
Dermal	NOAEL	OECD 402	5000 mg/kg		Rabbit			ECHA Dossier



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### Skin corrosion/irritation

Causes skin irritation.

ethyl methacrylate					
Route of exposure	Result	Exposure time	Species	Value determination	Source
Dermal	Irritating	24 hours	Rabbit (New Zealand White)	Experimentally	ECHA

methyl methacrylate					
Route of exposure	Result	Exposure time	Species	Value determination	Source
Dermal	Irritating	24 hours	Rabbit	Toxicity test	ECHA

### Irritation

2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester						
Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Dermal	Not irritating	in vivo	24 hours	Rabbit (New Zealand White)	Experimentally	ECHA
Eye	Not irritating	OECD 405	72 hours	Rabbit (New Zealand White)	Experimentally	ECHA

methyl methacrylate						
Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Inhalation	Irritating					ECHA

### Serious eye damage/irritation

Causes serious eye irritation.

ethyl methacrylate					
Route of exposure	Result	Exposure time	Species	Value determination	Source
Eye	Not irritating	72 hours	Rabbit (New Zealand White)	Experimentally	ECHA

methyl methacrylate					
Route of exposure	Result	Exposure time	Species	Value determination	Source
Eye	Not sensitizing		Rabbit		ECHA

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester							
Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Dermal	Sensitizing	OECD 429		Mouse	F	Experimentally	ECHA

ethyl methacrylate							
Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Dermal	Sensitizing	OECD 429		Mouse	F	Experimentally	ECHA

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methyl methacrylate							
Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Dermal	Sensitizing	OECD 429		Mouse		Observation method	ECHA
Inhalation	Not sensitizing						ECHA

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester							
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
Negative without metabolic activation, Negative with metabolic activation	OECD 473			Chinese hamster (Cricetulus barabensis)		Experimentally	ECHA
Negative	OECD 474			Mouse	F/M	Experimentally	ECHA

ethyl methacrylate							
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
No effect	in vitro					Experimentally	ECHA

methyl methacrylate							
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
Negative	OECD 476		Lung fibroblast	Chinese hamster (Cricetulus barabensis)			ECHA
Negative	OECD 478	5 days (6 hour/day)	Male reproductive organs	Mouse	M		ECHA

### Carcinogenicity

Based on available data the classification criteria are not met.

methyl methacrylate							
Route of exposure	Parameter	Value	Specific target organ	Result	Species	Sex	Source
Oral	NOAEL	90.3 mg/kg bw/day	Kidney	Not carcinogenic	Rat (Rattus norvegicus)	F/M	ECHA
Inhalation	NOAEC	2050 mg/m <sup>3</sup>		Not carcinogenic	Rat (Rattus norvegicus)	F/M	ECHA

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### Reproductive toxicity

Based on available data the classification criteria are not met.

#### 2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester

Effect	Parameter	Method	Value	Result	Species	Sex	Value determination	Source
Effects on fertility	NOAEL	OECD 422	1000 mg/kg bw/day	No effect	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Developmental toxicity	NOAEL	OECD 422	1000 mg/kg bw/day	Local effects	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA

### Toxicity for specific target organ - single exposure

May cause respiratory irritation.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Repeated dose toxicity

#### 2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	NOAEL		OECD 422	300 mg/kg bw/day		Rat (Sprague-Dawley)	F/M		ECHA

#### ethyl methacrylate

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	NOAEL			2400 mg/kg bw/day	90 days (7 days/week)	Rat (Rattus norvegicus)	F/M		
Inhalation	NOAEC	Histopathology, Total effects	OECD 453	104-1640 mg/m <sup>3</sup>	2 years (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Inhalation	LOAEC	Local effects, Histopathology		416 mg/m <sup>3</sup>	2 years (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA

#### methyl methacrylate

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral (drinking water)	NOAEL	No effect		124 mg/kg bw/day		Rat (Rattus norvegicus)	F/M		ECHA
Inhalation	NOAEC	No effect	OECD 453	2080 mg/m <sup>3</sup>		Rat (Rattus norvegicus)	F/M		ECHA

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methyl methacrylate									
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation	NOAEC	Local effects		104 mg/m <sup>3</sup>		Rat (Rattus norvegicus)			ECHA
Inhalation	LOEC	Local effects		416 mg/m <sup>3</sup>		Rat (Rattus norvegicus)			ECHA

### Aspiration hazard

Based on available data the classification criteria are not met.

### More information

Metabolism, toxicokinetics, mechanism of action and other information: Data for mixture is not available. The product is mixture of methacrylic acid esters. According to literature data MMA and the other methacrylate esters are readily absorbed by all routes and rapidly hydrolyzed by carboxylesterases to methacrylic acid (MAA) and the respective alcohol. A rapid elimination of the substance is expected, mainly in urine, exhaled air (resulting from the conversion into acrylic acid and then into CO<sub>2</sub>) and with feces. (ECHA Dossier)

### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 12: Ecological information

### 12.1. Toxicity

Data not available.

#### Acute toxicity

2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC <sub>50</sub>		32.5 mg/l	48 hours	Fish (Golden olfe)	Fresh water	Experimentally	ECHA
NOEC		25 mg/l	48 hours	Fish (Golden olfe)	Fresh water	Experimentally	ECHA
LC <sub>50</sub>		12.4 mg/l	96 hours	Fish (Golden olfe)	Fresh water	Experimentally	ECHA
NOEC	OECD 201	2.11 mg/l	72 hours	Algae (Desmodesmus subspicatus)	Fresh water	Experimentally	ECHA
EC <sub>10</sub>	OECD 201	4.35 mg/l	72 hours	Algae (Desmodesmus subspicatus)	Fresh water	Experimentally	ECHA
EC <sub>50</sub>	OECD 201	9.79 mg/l	72 hours	Algae (Desmodesmus subspicatus)	Fresh water	Experimentally	ECHA
NOEC	OECD 310	20 mg/l	28 days	Other aquatic organisms	Fresh water	Experimentally	ECHA

ethyl methacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC <sub>50</sub>	OECD 203	100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA

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ethyl methacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC <sub>50</sub>	OECD 202	>66 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC <sub>50</sub>	OECD 201	110 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
NOEC	OECD 201	110 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
EC <sub>50</sub>	OECD 209	1000 mg/l	30 minutes	Activated sludge	Fresh water	Experimentally	ECHA

methyl methacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC <sub>50</sub>	EPA OTS 797.1400	>79 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA
NOEC	EPA OTS 797.1400	40 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA
NOEC	EPA OTS 797.1300	48 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC <sub>50</sub>	EPA OTS 797.1300	69 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC <sub>50</sub>	OECD 201	>110 mg/kg	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
NOEC	OECD 201	110 mg/kg	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
NOEC	OECD 301C	100 mg/l	14 days	Microorganisms (Photobacterium phosphoreum)	Fresh water	Experimentally	ECHA

### Chronic toxicity

2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
NOEC	OECD 211	5.09 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
LOEC	OECD 211	13.5 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC <sub>10</sub>	OECD 211	7.51-15.5 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC <sub>50</sub>	OECD 211	14.1-22.1 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA

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ethyl methacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
NOEC	OECD 210	9.4 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	Analogous approach	ECHA
LOEC	OECD 211	31 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
NOEC	OECD 211	18 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA

methyl methacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LOEC	OECD 210	18.8 mg/l	35 days	Fish (Danio rerio)	Fresh water	Experimentally	ECHA
NOEC	OECD 210	9.4 mg/l	35 days	Fish (Danio rerio)	Fresh water	Experimentally	ECHA
LC <sub>50</sub>	OECD 210	33.7 mg/l	35 days	Fish (Danio rerio)	Fresh water	Experimentally	ECHA
NOEC	OECD 211	37 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
LOEC	OECD 211	68 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC <sub>50</sub>	OECD 211	49 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA

### More information

Avoid release to the environment.

### 12.2. Persistence and degradability

not available

#### Biodegradability

2-Propenoic acid, 2-methyl-, 1,1'-(1,4-butanediyl) ester							
Parameter	Method	Value	Exposure time	Environment	Value determination	Result	Source
% degradation (CO <sub>2</sub> evolution)	OECD 310	84 %	28 days	Fresh water	Experimentally	Easily biodegradable	ECHA

ethyl methacrylate							
Parameter	Method	Value	Exposure time	Environment	Value determination	Result	Source
% Degradation	OECD 301D	79.1 %	21 days	Fresh water	Experimentally	Easily biodegradable	ECHA

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methyl methacrylate							
Parameter	Method	Value	Exposure time	Environment	Value determination	Result	Source
% Degradation	OECD 301C	94 %	14 days	Fresh water	Experimentally	Easily biodegradable	ECHA

**12.3. Bioaccumulative potential**

Data not available.

**12.4. Mobility in soil**

Data not available.

**12.5. Results of PBT and vPvB assessment**

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Endocrine disrupting properties**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**12.7. Other adverse effects**

Data not available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

16 03 03\* inorganic wastes containing hazardous substances

**Packaging waste type code**

15 01 10\* packaging containing residues of or contaminated by hazardous substances

(\* ) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

**SECTION 14: Transport information**

**14.1. UN number or ID number**

UN 1247

**14.2. UN proper shipping name**

METHYL METHACRYLATE MONOMER, STABILIZED

**14.3. Transport hazard class(es)**

3 Flammable liquids

**14.4. Packing group**

II

**14.5. Environmental hazards**

not relevant

**14.6. Special precautions for user**

Reference in the Sections 4 to 8. Self-accelerating decomposition temperature (SAPT) >50oC

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

not relevant

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### Additional information

Hazard identification No. **339**  
 UN number **1247**  
 Classification code F1  
 Safety signs 3



### Road transport - ADR

Special provisions 386  
 Limited quantities 1 L  
 Excepted quantities E2

#### Packaging

Packing instructions P001, IBC02, R001  
 Mixed packing provisions MP19

#### Portable tanks and bulk containers

Guidelines T4  
 Special provisions TP1

#### ADR tank

Tank code LGBF  
 Vehicles for tank carriage FL  
 Transport category 4  
 Tunnel restriction code (D/E)

#### Special provision for

packages V8  
 operation S2, S4, S20

### Railway transport - RID

Special provisions 386  
 Excepted quantities E2

#### Packaging

Packing instructions P001, IBC02, R001  
 Mixed packing provisions MP19

#### Portable tanks and bulk containers

Guidelines T4  
 Special provisions TP1

#### RID Tanks

Tank code LGBF  
 Transport category 0

#### Special provision for

packages W8

### Air transport - ICAO/IATA

Packaging instructions for limited amount Y341  
 Packaging instructions passenger 353  
 Cargo packaging instructions 364

### Marine transport - IMDG

EmS (emergency plan) F-E, S-D



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### SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Guidelines for safe handling used in the safety data sheet

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves.
P370+P378	In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

#### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC <sub>10</sub>	Concentration of a substance when it is affected 10% of the population
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population

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LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
log Kow	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

Version 2.0 replaces the SDS version from 05/18/2021. Data updates and changes have been made to all sections of the SDS.

### More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.