



## VILLACRYL HARD LIQUID

Creation date	06th May 2024	Version	2.0
Revision date			

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

- 1.1. Product identifier**  
 Substance / mixture: VILLACRYL HARD LIQUID mixture  
 Number: V190L  
 UFI: WAH0-30SN-500H-H8QF
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
 Liquid component of hard denture relining material VILLACRYL HARD. 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.
- Skin Irrit. 2, H315  
 Skin Sens. 1, H317  
 Eye Irrit. 2, H319  
 Resp. Sens. 1, H334  
 STOT SE 3, H335  
 Aquatic Chronic 3, H412
- Most serious adverse effects on human health and the environment**  
 Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
- 2.2. Label elements**  
**Hazard pictogram**
- 

- Signal word**  
 Danger

## VILLACRYL HARD LIQUID

Creation date	06th May 2024	Version	2.0
Revision date			

### Hazardous substances

Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester  
2-hydroxyethyl methacrylate

### Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statements

P261	Avoid breathing vapours.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.

### 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
CAS: 6606-59-3 EC: 229-551-7	1,6-hexanediyl bismethacrylate	<70	Aquatic Chronic 3, H412	
CAS: 21282-97-3 EC: 244-311-1	Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester	>30	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335	
Index: 607-124-00-X CAS: 868-77-9 EC: 212-782-2	2-hydroxyethyl methacrylate	<1,5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	2
Index: 612-056-00-9 CAS: 99-97-8 EC: 202-805-4	N,N-dimethyl-p-toluidine	<1	Acute Tox. 3, H301+H311+H331 STOT RE 2 (**), H373 Aquatic Chronic 3, H412	1

#### Notes

\*\* another exposure route cannot be ruled out

- 1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- 2 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".

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

**VILLACRYL HARD LIQUID**

Creation date	06th May 2024	Version	2.0
Revision date			

**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.

**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 allergy or asthma symptoms or breathing difficulties 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. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

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.

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## VILLACRYL HARD LIQUID

Creation date 06th May 2024  
 Revision date Version 2.0

### 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

Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. 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. Avoid release to the environment.

### 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. Store locked up. Keep container tightly closed.

### 7.3. Specific end use(s)

not available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

#### DNEL

1,6-hexanediyl bismethacrylate					
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	Dermal	2.5 mg/kg bw/day	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	Oral	2.5 mg/kg bw/day	Chronic effects systemic	Toxicity test	ECHA

2-hydroxyethyl methacrylate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	4.9 mg/m <sup>3</sup>	Chronic effects systemic	Experimentally	ECHA
Workers	Dermal	1.39 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA
Consumers	Inhalation	1.45 mg/m <sup>3</sup>	Chronic effects systemic	Experimentally	ECHA
Consumers	Dermal	830 µg/kg bw/24h	Chronic effects systemic	Experimentally	ECHA
Consumers	Oral	830 µg/kg bw/24h	Chronic effects systemic	Experimentally	ECHA

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## VILLACRYL HARD LIQUID

Creation date

06th May 2024

Revision date

Version

2.0

### Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	35 mg/m <sup>3</sup>	Chronic effects systemic	Experimentally	ECHA
Workers	Inhalation	700 mg/m <sup>3</sup>	Acute effects systemic	Experimentally	ECHA
Workers	Inhalation	35 mg/m <sup>3</sup>	Chronic effects systemic	Experimentally	ECHA
Workers	Inhalation	700 mg/m <sup>3</sup>	Acute effects systemic	Experimentally	ECHA
Workers	Dermal	5 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA
Workers	Dermal	100 mg/kg bw/day	Chronic effects local	Experimentally	ECHA
Workers	Dermal	125 µg/cm <sup>2</sup>	Chronic effects local	Experimentally	ECHA
Workers	Dermal	2.5 mg/cm <sup>2</sup>	Acute effects local	Experimentally	ECHA
Consumers	Inhalation	17.5 mg/m <sup>3</sup>	Chronic effects systemic	Experimentally	ECHA
Consumers	Inhalation	350 mg/m <sup>3</sup>	Acute effects systemic	Experimentally	ECHA
Consumers	Inhalation	17.5 mg/m <sup>3</sup>	Chronic effects systemic	Experimentally	ECHA
Consumers	Inhalation	350 mg/m <sup>3</sup>	Acute effects systemic	Experimentally	ECHA
Consumers	Dermal	2.5 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA
Consumers	Dermal	50 mg/kg bw/day	Chronic effects local	Experimentally	ECHA
Consumers	Dermal	62.5 µg/cm <sup>2</sup>	Chronic effects local	Experimentally	ECHA
Consumers	Dermal	1.25 mg/cm <sup>2</sup>	Acute effects local	Experimentally	ECHA
Consumers	Oral	2.5 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA
Consumers	Oral	50 mg/kg bw/day	Acute effects systemic	Experimentally	ECHA

### N,N-dimethyl-p-toluidine

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	128 µg/m <sup>3</sup>	Chronic effects systemic	Toxicity test	ECHA
Workers	Dermal	624 µg/kg bw	Chronic effects systemic	Toxicity test	ECHA
Consumers	Inhalation	22.7 µg/m <sup>3</sup>	Chronic effects systemic		
Consumers	Dermal	223 µg/kg bw	Chronic effects systemic	Toxicity test	ECHA
Consumers	Oral	20 µg/kg bw	Chronic effects systemic	Toxicity test	ECHA

### PNEC

#### 1,6-hexanediyl bismethacrylate

Route of exposure	Value	Value determination	Source
Drinking water	4.88 mg/l	Toxicity test	ECHA
Water (intermittent release)	45 µg/l	Toxicity test	ECHA
Marine water	488 ng/l	Toxicity test	ECHA
Microorganisms in sewage treatment	800 mg/l	Toxicity test	ECHA
Freshwater sediment	262 µg/kg of dry substance	Toxicity test	ECHA

## VILLACRYL HARD LIQUID

Creation date	06th May 2024	Version	2.0
Revision date			

1,6-hexanediyl bismethacrylate			
Route of exposure	Value	Value determination	Source
Sea sediments	26.2 µg/kg of dry substance	Toxicity test	ECHA
Soil (agricultural)	49.5 µg/kg	Toxicity test	ECHA

N,N-dimethyl-p-toluidine			
Route of exposure	Value	Value determination	Source
Drinking water	152.59 µg/l	Experimentally	ECHA
Water (intermittent release)	152.59 µg/l	Experimentally	ECHA
Marine water	15.259 µg/l	Experimentally	ECHA
Microorganisms in sewage treatment	4.286 µg/l	Experimentally	ECHA
Freshwater sediment	45.378 mg/kg of dry substance of sediment	Experimentally	ECHA
Sea sediments	45.378 mg/kg of dry substance of sediment	Experimentally	ECHA
Soil (agricultural)	18.677 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.

#### Respiratory protection

Halfmask with a filter against organic vapours in the poorly ventilated environment. In case of inadequate ventilation wear respiratory protection.

#### 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

Physical state	liquid
Colour	colourless
Odour	Typical for methacrylic acid esters
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	>200 °C
Flammability	non-inflammable
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available

## VILLACRYL HARD LIQUID

Creation date	06th May 2024	Version	2.0
Revision date			

Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	almost insoluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	>0.1 g/cm <sup>3</sup>
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

**9.2. Other information**

not available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

not available

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Unknown.

**10.4. Conditions to avoid**

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

**10.5. Incompatible materials**

Protect against strong acids, bases and oxidizing agents.

**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**

No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

1,6-hexanediyl bismethacrylate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD <sub>50</sub>	OECD 423	>2000 mg/kg bw	14 days	Rat (Wistar)	F/M	Toxicity test	ECHA

2-hydroxyethyl methacrylate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD <sub>50</sub>		>5000 mg/kg		Rat (Rattus norvegicus)		Experimentally	ECHA
Dermal	LD <sub>50</sub>		>5000 mg/kg bw			M	Read-across	ECHA

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## VILLACRYL HARD LIQUID

Creation date  
Revision date

06th May 2024

Version

2.0

### Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD <sub>50</sub>	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Dermal	LD <sub>50</sub>	OECD 402	2000 mg/kg bw	24 hours	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA

### N,N-dimethyl-p-toluidine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD <sub>50</sub>	OECD 401	139 mg/kg bw		Mouse	F/M	Experimentally	ECHA
Oral	LD <sub>50</sub>	OECD 401	1300-1950 mg/kg bw		Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Dermal	LD <sub>50</sub>	OECD 402	>2000 mg/kg bw		Rabbit	F/M	Experimentally	ECHA
Inhalation	LC <sub>50</sub>		1.4 mg/l		Rat (Rattus norvegicus)	F/M	Experimentally	ECHA

### Skin corrosion/irritation

Causes skin irritation.

### 1,6-hexanediyl bismethacrylate

Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Skin	Not irritating	in vivo	24 hours	Rabbit (New Zealand White)	Toxicity test	ECHA
Eye	Not irritating	OECD 405		Rabbit (New Zealand White)	Toxicity test	ECHA

### Irritation

#### 2-hydroxyethyl methacrylate

Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Dermal	Not irritating		24 hours	Rabbit (New Zealand White)	Experimentally	ECHA
Eye	Irritating			Rabbit (New Zealand White)	Experimentally	ECHA

### Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester

Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Dermal	Not irritating	OECD 404	4 hours	Rabbit (New Zealand White)	Experimentally	ECHA
Eye	Not irritating	OECD 405	72 hours	Rabbit	Experimentally	ECHA

### N,N-dimethyl-p-toluidine

Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Dermal	Not irritating	OECD 404	4 hours	Rabbit	Experimentally	ECHA
Eye	Not irritating	OECD 405	4 hours	Rabbit	Experimentally	ECHA

### Serious eye damage/irritation

Causes serious eye irritation.



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## VILLACRYL HARD LIQUID

Creation date

06th May 2024

Revision date

Version

2.0

### Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### N,N-dimethyl-p-toluidine

Route of exposure	Result	Exposure time	Species	Sex	Value determination	Source
Dermal	Sensitizing				Literary studies	ECHA

### Sensitization

#### 1,6-hexanediyl bismethacrylate

Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Skin	Not sensitizing	OECD 429		Mouse	F	Toxicity test	ECHA

#### 2-hydroxyethyl methacrylate

Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Dermal	Sensitizing			Guinea-pig (Cavia aperea f. porcellus)	F	Experimentally	ECHA

#### Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester

Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Dermal	Not sensitizing	OECD 429		Mouse	F	Experimentally	ECHA

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### 1,6-hexanediyl bismethacrylate

Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
Negative without metabolic activation, Negative with metabolic activation	OECD 471	48 hours		Bacteria (Salmonella typhimurium)		Toxicity test	ECHA
Negative	OECD 474			Mouse	F/M	Toxicity test	ECHA

#### 2-hydroxyethyl methacrylate

Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
Positive without metabolic activation, Positive with metabolic activation	OECD 473	24 hours (24 hour/day)	Lungs	Chinese hamster (Cricetulus barabensis)	F	Experimentally	ECHA

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## VILLACRYL HARD LIQUID

Creation date

06th May 2024

Revision date

Version

2.0

### Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester

Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
Negative	OECD 474	48 hours		Mouse	M	Experimentally	ECHA

### N,N-dimethyl-p-toluidine

Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
Negative without metabolic activation, Negative with metabolic activation				Bacteria (Salmonella typhimurium)		Literary studies	ECHA
Negative		3 months (7 days/week)	Blood	Mouse	F/M	Literary studies	ECHA

### Carcinogenicity

Based on available data the classification criteria are not met.

### N,N-dimethyl-p-toluidine

Route of exposure	Parameter	Value	Exposure time	Specific target organ	Result	Species	Sex	Value determination	Source
Oral	LOAEL	6 mg/kg bw/day	2 years (5 days/week)	Liver	Negative	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA

### Reproductive toxicity

Based on available data the classification criteria are not met.

### 1,6-hexanediyl bismethacrylate

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Value determination	Source
Effects on fertility	NOAEL	OECD 416	400 mg/kg bw/day		No effect	Rat (Wistar)	F/M	Toxicity test	ECHA
Developmental toxicity	NOAEL	OECD 414	450 mg/kg bw/day		No effect	Rabbit (Himalayan)	F/M	Toxicity test	ECHA

### 2-hydroxyethyl methacrylate

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Value determination	Source
Effects on fertility	NOAEL	OECD 422	1000 mg/kg bw/day	49 days	No effect	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA

### Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Value determination	Source
		OECD 474		48 hours	Negative	Mouse	M	Experimentally	ECHA

## VILLACRYL HARD LIQUID

Creation date  
Revision date

06th May 2024

Version

2.0

### N,N-dimethyl-p-toluidine

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Value determination	Source
Effects on fertility	NOAEL	OECD 422	44.6 mg/kg bw/day	14 weeks (5 days/week)	Negative	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Developmental toxicity	NOAEL	OECD 422	30 mg/kg bw/day	14 weeks (5 days/week)	Negative	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

##### 1,6-hexanediyl bismethacrylate

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	NOAEL	No effect		≥124.1 mg/kg bw/day	104 weeks (7 days/week)	Rat (Wistar)	F/M	Toxicity test	ECHA
Inhalation	NOAEC	No effect	OECD 453	1640 mg/m <sup>3</sup> of air	104 weeks (6 hour/day, 5 days/week)	Rat (Fischer 344)	F/M	Toxicity test	ECHA
Inhalation	LOAEC	No effect	OECD 453	416 mg/m <sup>3</sup> of air	104 weeks (6 hour/day, 5 days/week)	Rat (Fischer 344)	F/M	Toxicity test	ECHA

##### 2-hydroxyethyl methacrylate

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	NOAEL	Total effects	OECD 422	100 mg/kg bw/day	49 days	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Inhalation	NOAEC	No effect	OECD 413	100 ppm	90 days	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Inhalation	NOAEC	Local effects	OECD 413	350 ppm	90 days	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA

##### Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	NOEL	No effect	OECD 408	500 mg/kg bw/day	90 days (5 days/week)	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## VILLACRYL HARD LIQUID

Creation date  
Revision date

06th May 2024

Version

2.0

N,N-dimethyl-p-toluidine									
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LOAEL			6 mg/kg bw	2 years (5 days/week)	Rat (Rattus norvegicus)	F/M	Literary studies	ECHA
Inhalation (vapor)	LOAEL			67.284 mg/kg bw/day		Rat (Rattus norvegicus)	F/M	Literary studies	ECHA

### Aspiration hazard

Based on available data the classification criteria are not met.

### 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

Harmful to aquatic life with long lasting effects.

#### Acute toxicity

1,6-hexanediyl bismethacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC <sub>50</sub>	OECD 203	4.5 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	Toxicity test	ECHA
EC <sub>50</sub>		11.2 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Toxicity test	ECHA

2-hydroxyethyl 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
EC <sub>50</sub>	OECD 202	380 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC <sub>50</sub>	OECD 201	345 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
NOEC	OECD 201	160 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA

Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC <sub>50</sub>	OECD 203	89.1 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## VILLACRYL HARD LIQUID

Creation date

06th May 2024

Revision date

Version

2.0

### Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC <sub>50</sub>	OECD 202	96.6 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC <sub>50</sub>	OECD 201	69.2 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
NOEC	OECD 201	11.1 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
NOEC	OECD 209	320 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA

### N,N-dimethyl-p-toluidine

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC <sub>50</sub>	ASTM E 729	52.8 mg/l	96 hours	Fish (Pimephales promelas)	Fresh water	Experimentally	ECHA
LC <sub>50</sub>		15.27 mg/l	48 hours	Algae (Daphnia magna)	Fresh water	Calculation of value	ECHA
EC <sub>50</sub>	OECD 207	23.69 mg/l	72 hours	Algae (Daphnia magna)	Fresh water	Experimentally	ECHA
EC <sub>50</sub>		100 mg/l	3 hours	Invertebrates	Fresh water	Experimentally	ECHA

### Chronic toxicity

#### 1,6-hexanediyl bismethacrylate

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC <sub>50</sub>		5.33 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Toxicity test	ECHA
EC <sub>0</sub>		800 mg/l	16 hours	Bacteria (Pseudomonas putida)	Fresh water	Toxicity test	ECHA

#### 2-hydroxyethyl methacrylate

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
NOEC	OECD 211	24.1 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA

### 12.2. Persistence and degradability

not available

#### Biodegradability

#### 1,6-hexanediyl bismethacrylate

Parameter	Method	Value	Exposure time	Environment	Value determination	Result	Source
% Degradation	OECD 301F	91.1 %	28 days	Fresh water	Experimentally	Easily biodegradable	ECHA

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## VILLACRYL HARD LIQUID

Creation date 06th May 2024  
Revision date Version 2.0

N,N-dimethyl-p-toluidine							
Parameter	Method	Value	Exposure time	Environment	Value determination	Result	Source
						Hardly biodegradable	

### 12.3. Bioaccumulative potential

Data not available.

N,N-dimethyl-p-toluidine							
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination	Source
BCF	29.09-33.19			Activated sludge		Calculation of value	ECHA

### 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

not subject to transport regulations

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

## VILLACRYL HARD LIQUID

Creation date	06th May 2024	Version	2.0
Revision date			

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 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

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

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.

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

P261	Avoid breathing vapours.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.

### 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>0</sub>	Concentration of a substance when it is affected 0% 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

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## VILLACRYL HARD LIQUID

Creation date	06th May 2024	Version	2.0
Revision date			

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
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
LOAEL	Lowest observed adverse effect level
log K <sub>ow</sub>	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
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
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Irrit.	Eye irritation
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
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





# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## VILLACRYL HARD LIQUID

Creation date	06th May 2024	Version	2.0
Revision date			

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.