SAFETY DATA SHEET

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

VILLACRYL IT LIQUID

Creation date	20th May 2021	Version	3.0
Revision date	13th April 2026		

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

1.1. Product identifier VILLACRYL IT LIQUID

Substance / mixture: mixture

Number: V140L

UFI: E1D0-T08S-U00S-E6K7

Other mixture names

UFI: E1D0-T08S-U00S-E6K7, VILLACRYL IT liquid 200ml - V140ZL01
UFI: E1D0-T08S-U00S-E6K7, VILLACRYL IT liquid 6ml - V140ZL02

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

Mixture's intended use

Liquid component of acrylic material for making individual impression trays

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 number	PL5210124886
Phone	+48 22 858 82 72
Email	info@everall7.pl
Web address	everall7.pl

Competent person responsible for the safety data sheet

Name	Everall7 Sp. z o.o.
Email	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. 1, H317
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 an allergic skin reaction. May cause respiratory irritation.

2.2. Label elements

Hazard pictogram

Signal word

Danger

Hazardous substances

methyl methacrylate
ethylene dimethacrylate
N,N-Bis (2-hydroxyethyl)-p-toluidine

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
P280	Wear protective gloves/eye protection/protective clothing.
P362+P364	Take off contaminated clothing and wash it before reuse.
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	≤80	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	1, 2
Index: 607-114-00-5 CAS: 97-90-5 EC: 202-617-2	ethylene dimethacrylate	<10	Skin Sens. 1, H317 STOT SE 3, H335	1
CAS: 8042-47-5 EC: 232-455-8	White mineral oil	<10	Asp. Tox. 1, H304	
CAS: 3077-12-1 EC: 221-359-1	N,N-Bis (2-hydroxyethyl)-p-toluidine	<1	Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412	

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 0.2-0.5 L 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

Not expected.

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.

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. 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
200 ml	bottle	HDPE
6 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

DNEL

ethylene dimethacrylate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2.45 mg/m³	Chronic effects systemic	Toxicity test	ECHA
Workers	Dermal	1.3 mg/kg bw/day	Chronic effects systemic	Toxicity test	ECHA
Consumers	Inhalation	1.45 mg/m³	Chronic effects systemic	Toxicity test	ECHA
Consumers	Dermal	830 µg/kg bw/24h	Chronic effects systemic	Toxicity test	ECHA
Consumers	Oral	830 µg/kg bw/24h	Chronic effects systemic	Toxicity test	ECHA

methyl methacrylate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	348.4 mg/m³	Chronic effects systemic	Toxicity test	ECHA
Workers	Inhalation	208 mg/m³	Chronic effects local		ECHA
Workers	Inhalation	416 mg/m³	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/cm²	Chronic effects local	Toxicity test	ECHA
Workers	Dermal	1.5 mg/cm²	Acute effects local	Toxicity test	ECHA
Consumers	Inhalation	74.3 mg/m³	Chronic effects systemic	Toxicity test	ECHA
Consumers	Inhalation	104 mg/m³	Chronic effects local	Toxicity test	ECHA
Consumers	Inhalation	208 mg/m³	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/cm²	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/cm²	Chronic effects local		ECHA

N,N-Bis (2-hydroxyethyl)-p-toluidine					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	3.29 mg/m³	Chronic effects systemic	Toxicity test	ECHA
Workers	Dermal	0.47 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA
Consumers	Inhalation	0.58 mg/m³	Chronic effects systemic	Experimentally	ECHA
Consumers	Dermal	0.17 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA
Consumers	Oral	0.16 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA

White mineral oil					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	164.56 mg/m³	Chronic effects systemic	Experimentally	ECHA
Workers	Dermal	217.05 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA
Consumers	Inhalation	34.78 mg/m³	Chronic effects systemic	Experimentally	ECHA
Consumers	Dermal	93.02 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA
Consumers	Oral	25 mg/kg bw/day	Chronic effects systemic	Experimentally	ECHA

PNEC

ethylene dimethacrylate			
Route of exposure	Value	Value determination	Source
Drinking water	69.3 µg/l	Experimentally	ECHA
Water (intermittent release)	150 µg/l	Experimentally	ECHA
Marine water	6.93 µg/l	Experimentally	ECHA
Microorganisms in sewage treatment	57 mg/l	Experimentally	ECHA
Freshwater sediment	411 µg/kg of dry substance	Experimentally	ECHA
Sea sediments	41.1 µg/kg of dry substance	Experimentally	ECHA
Soil (agricultural)	41.5 µg/kg of dry substance	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

N,N-Bis (2-hydroxyethyl)-p-toluidine			
Route of exposure	Value	Value determination	Source
Fresh water	0.026 mg/l	Experimentally	ECHA
Marine water	0.003 mg/l	Experimentally	ECHA
Freshwater sediment	0.121 mg/kg of dry substance of sediment	Experimentally	ECHA
Sea sediments	0.012 mg/kg of dry substance of sediment	Experimentally	ECHA
Soil (agricultural)	0.009 mg/kg of dry substance of soil	Experimentally	ECHA

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. 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 antistatic clothing made of natural fibres (cotton) or synthetic fibres resistant to elevated temperatures. Antistatic footwear. Contaminated skin should be washed thoroughly.

Glove material	Thickness	Breakthrough time	Class
Butyl rubber (IIR)	≥ 0.3 mm	>480 min	6

Respiratory protection

Halfmask with a filter against organic vapours in the 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

Physical state	liquid
Colour	data not available
Odour	Typical for methacrylic acid esters
Melting point/freezing point	-48.2 °C

Boiling point or initial boiling point and boiling range	>100 °C
Flammability	inflammable
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 at 20 °C
Density and/or relative density	
Density	940 g/cm³
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

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 occurration of free radicals. The polymerization reaction is exothermic (heat releasing) and in uncontrolled conditions proceed very vigotous.

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

Hazardous substances in concentrations exceeding exposure limits may cause acute inhalation poisoning, depending on the concentration and duration of exposure. No toxicological data is available for the mixture.

Acute toxicity

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

VILLACRYL IT LIQUID								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE		95901 mg/kg				Calculation of value	

ethylene dimethacrylate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD_{50}		8300 ml/kg bw	14 days	Rat (Wistar)	F/M	Experimentally	ECHA
Dermal	LD_{50}	OECD 402	2000 mg/kg bw	24 hours	Rat (Wistar)	F/M	Experimentally	ECHA

methyl methacrylate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD_{50}		7900 mg/kg		Rat (Rattus norvegicus)		Mortal	ECHA Dossier
Inhalation	LC_{50}		29.8 mg/l	4 hours	Rat (Rattus norvegicus)			ECHA Dossier
Dermal	LD_{50}	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

N,N-Bis (2-hydroxyethyl)-p-toluidine								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD_{50}	OECD 401	959 mg/kg bw		Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Oral	LD_{50}	OECD 401	0.88 ml/kg bw		Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Dermal	LD_{50}	OECD 402	>2.000 mg/kg bw	24 hours	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA

White mineral oil								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD_{50}	OECD 401	>5000 mg/kg bw		Rat (Sprague -Dawley)	F/M	Experimentally	ECHA
Inhalation	LC_{50}	OECD 403	>5 mg/l of air	4 hours	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Skin	LD_{50}	OECD 402	>2000 mg/kg bw	24 hours	Rabbit (New Zealand White)	F/M	Experimentally	ECHA

Skin corrosion/irritation

Causes skin irritation.

ethylene dimethacrylate						
Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Dermal	Not irritating	in vivo	24 hours	Rabbit (New Zelend White)	Observation method	ECHA

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

N,N-Bis (2-hydroxyethyl)-p-toluidine						
Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Dermal	Not irritating		24 hours	Rabbit	Experimentally	ECHA

White mineral oil						
Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Subcutaneous	Not irritating	OECD 404	24 hours	Rabbit (New Zealand White)	Experimentally	ECHA

Irritation

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

N,N-Bis (2-hydroxyethyl)-p-toluidine						
Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Eye	Serious eye damage	OECD 405	72 hours	Rabbit (New Zealand White)	Experimentally	ECHA

White mineral oil						
Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Eye	Not irritating	OECD 405		Rabbit (New Zealand White)	Experimentally	ECHA

Serious eye damage/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

ethylene dimethacrylate						
Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Eye	Not irritating	in vivo	72 hours	Rabbit (New Zelend White)	Observation method	ECHA

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

Respiratory or skin sensitisation

May cause an allergic skin reaction.

ethylene dimethacrylate							
Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Dermal	Sensitizing	OECD 406		Mouse	F	Literary studies	ECHA

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

N,N-Bis (2-hydroxyethyl)-p-toluidine							
Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Dermal	Sensitizing	OECD 429		Mouse	F	Experimentally	ECHA

White mineral oil							
Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Dermal	Not sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)	M	Experimentally	ECHA

Germ cell mutagenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

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

N,N-Bis (2-hydroxyethyl)-p-toluidine							
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
Negative without metabolic activation, Negative with metabolic activation	OECD 473			Human lymphocytes		Experimentally	ECHA
Positive without metabolic activation	OECD 476			Mouse (lymphoma)		Experimentally	ECHA
Negative	OECD 489	72 hours		Rat (Wistar)	M	Experimentally	ECHA

White mineral oil							
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)		Toxicity test	ECHA
Negative	OECD 474			Mouse	F/M	Toxicity test	ECHA

Carcinogenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

methyl methacrylate									
Route of exposure	Parameter	Method	Value	Specific target organ	Result	Species	Sex	Value determination	Source
Oral	NOAEL		90.3 mg/kg bw/day	Kidneys	Not carcinogenic	Rat (Rattus norvegicus)	F/M		ECHA
Inhalation	NOAEC		2050 mg/m³		Not carcinogenic	Rat (Rattus norvegicus)	F/M		ECHA

White mineral oil									
Route of exposure	Parameter	Method	Value	Specific target organ	Result	Species	Sex	Value determination	Source
Oral	NOAEL	OECD 453	1200 mg/kg bw		No carcinogenic effect	Rat (Rattus norvegicus)		Toxicity test	ECHA
Inhalation	NOAEC	OECD 453	100 mg/m³		No carcinogenic effect	Rat (Rattus norvegicus)		Toxicity test	ECHA
Dermal		OECD 453			No carcinogenic effect			Toxicity test	ECHA

Reproductive toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

N,N-Bis (2-hydroxyethyl)-p-toluidine								
Effect	Parameter	Method	Value	Result	Species	Sex	Value determination	Source
Developmental toxicity	NOAEL	OECD 414	200 mg/kg bw/day	Local effects	Rat (other: Crl:WI(Han)	M	Experimentally	ECHA

White mineral oil								
Effect	Parameter	Method	Value	Result	Species	Sex	Value determination	Source
Effects on fertility	NOAEL	OECD 416	≥2000 mg/kg bw/day	No effect	Rat (Rattus norvegicus)	F/M	Toxicity test	ECHA
Developmental toxicity	NOAEL	OECD 414	>5000 mg/kg bw/day	No effect	Rat (Rattus norvegicus)		Toxicity test	ECHA

Toxicity for specific target organ - single exposure

May cause respiratory irritation. Data for the components of the mixture are not available.

Toxicity for specific target organ - repeated exposure

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Repeated dose toxicity

ethylene dimethacrylate									
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	NOAEL	Body weight, Organ weight	OECD 422	100 mg/kg bw/day	49 days	Rat (Rattus norvegicus)	F/M	Analogous approach, Literary studies	ECHA
Dermal	NOAEL	Irritating, Local effects, Systemic effects, Histopathology		100 mg/kg bw/day	78 weeks (5 days/week)	Mouse	M	Analogous approach, Literary studies	ECHA

ethylene dimethacrylate									
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation	NOAEL	Irritating, Local effects, Systemic effects, Histopathology	OECD 413	100 ppm	90 days (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)	F/M	Analogous approach, Literary studies	ECHA
Inhalation	LOAEC	Irritating, Local effects, Systemic effects, Histopathology	OECD 413	350 ppm	90 days (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)	F/M	Analogous approach, Literary studies	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/m³		Rat (Rattus norvegicus)	F/M		ECHA
Inhalation	NOAEC	Local effects		104 mg/m³		Rat (Rattus norvegicus)			ECHA
Inhalation	LOEC	Local effects		416 mg/m³		Rat (Rattus norvegicus)			ECHA

N,N-Bis (2-hydroxyethyl)-p-toluidine									
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	NOAEL	Enlargement of/effect on the liver	OECD 407	100 mg/kg bw/day	Co najmniej 28 days	Rat (Wistar)	F/M	Experimentally	ECHA

White mineral oil									
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	NOAEL	No effect	OECD 453	≥1200 mg/kg bw/day	24 months	Rat (Rattus norvegicus)	F/M	Toxicity test	ECHA
Inhalation (aerosols)	NOEL	No effect	OECD 412	50 mg/m³ of air	4 weeks (6 hour/day, 5 days/week)	Rat (Sprague-Dawley)	F/M	Toxicity test	ECHA
Inhalation (aerosols)	LOEL	Local effects	OECD 412	210 mg/m³ of air	4 weeks (6 hour/day, 5 days/week)	Rat (Sprague-Dawley)	F/M	Toxicity test	ECHA
Skin	NOAEL	No effect	OECD 411	≥2000 mg/kg bw/day	13 weeks	Rat (Sprague-Dawley)	F/M	Toxicity test	ECHA

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Acute toxicity

ethylene dimethacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}	OECD 203	15.95 mg/l	96 hours	Fish (Danio rerio)	Fresh water	Experimentally	ECHA
LC_{0}	OECD 203	6.25 mg/l	96 hours	Fish (Danio rerio)	Fresh water	Experimentally	ECHA
LC_{100}	OECD 203	25 mg/l	96 hours	Fish (Danio rerio)	Fresh water	Experimentally	ECHA
EC_{0}	OECD 202	19.8 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC_{50}	OECD 202	44.9 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC_{100}	OECD 202	100 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
NOEC	OECD 202	13.2 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC_{50}	OECD 201	10.1-19 mg/l	96 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
NOEC	OECD 201	0.804 mg/l	96 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
EC_{50}	OECD 201	9.1-17.3 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
EC_{10}	OECD 201	6.93 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
EC_{50}	OECD 209	570 mg/l	30 minutes	Microorganisms (Photobacterium phosphoreum)	Activated sludge	Indicator of growth	ECHA
EC_{10}	OECD 209	100 mg/l	30 minutes	Microorganisms (Photobacterium phosphoreum)	Activated sludge	Indicator of growth	ECHA
EC_{50}	OECD 209	570 mg/l	3 hours	Microorganisms (Photobacterium phosphoreum)	Activated sludge	Indicator of growth	ECHA
EC_{10}	OECD 209	100 mg/l	3 hours	Microorganisms (Photobacterium phosphoreum)	Activated sludge	Indicator of growth	ECHA

methyl methacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}	EPA OTS 797.1400	>79 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	Experimentally	ECHA

methyl methacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
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_{50}	EPA OTS 797.1300	69 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC_{50}	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

N,N-Bis (2-hydroxyethyl)-p-toluidine							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}	OECD 203	>100 mg/l	96 hours	Fish (Cyprinus carpio)	Fresh water	Experimentally	ECHA
EC_{50}	OECD 202	48 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
NOEC	OECD 201	100 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
EC_{50}	OECD 201	>100 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
EC_{50}	OECD 209	>1.000 mg/l	3 hours	Sediment microorganisms (sediment toxicity)	Fresh water	Experimentally	ECHA

White mineral oil							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
NOEL	OECD 203	≥10.000 mg/l	96 hours	Fish (Leuciscus idus)	Fresh water	Toxicity test	ECHA
LL_{50}	OECD 203	≥10.000 mg/l	96 hours	Fish (Leuciscus idus)	Fresh water	Toxicity test	ECHA
NOEL	OECD 203	≥100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	Toxicity test	ECHA
LL_{50}	OECD 203	≥100 mg/l	96 hours	Fish (Leuciscus idus)	Fresh water	Toxicity test	ECHA
LL_{50}	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Toxicity test	ECHA
NOEL	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Toxicity test	ECHA

Chronic toxicity

ethylene dimethacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC_{50}	OECD 211	5.05 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA

ethylene dimethacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC_{10}	OECD 211	7.22 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
NOEC	OECD 211	5.05 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
LOEC	OECD 211	23.1-32.1 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_{50}	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_{50}	OECD 211	49 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

ethylene dimethacrylate							
Parameter	Method	Value	Exposure time	Environment	Value determination	Result	Source
	OECD 301F	69 %	28 days	Activated sludge	Experimentally	Easily biodegradable	ECHA

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

N,N-Bis (2-hydroxyethyl)-p-toluidine							
Parameter	Method	Value	Exposure time	Environment	Value determination	Result	Source
	OECD 301B		28 days	Fresh water	Experimentally	Not biodegradable	ECHA

12.3. Bioaccumulative potential

Data for the mixture are not available.

ethylene dimethacrylate			
Parameter	Value	Value determination	Source
BCF	21.9	Experimentally	ECHA

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. 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. 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.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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	0
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

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.

SECTION 16: Other information

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

H225	Highly flammable liquid and vapour.

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

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.
P280	Wear protective gloves/eye protection/protective clothing.
P362+P364	Take off contaminated clothing and wash it before reuse.
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

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
ATE	Acute toxicity estimate
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_0	Concentration of a substance when it is affected 0 % of the population
EC_{10}	Concentration of a substance when it is affected 10 % of the population
EC_{100}	Concentration of a substance when it is affected 100 % of the population
EC_{50}	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EU	European Union
EuPCS	European Product Categorisation System
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquid
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_0	Lethal concentration of a substance in which it can be expected death of 0% of the population
LC_{100}	Lethal concentration of a substance in which it can be expected death of 100% of the population
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
LL_{50}	Lethal Loading for 50 % of tested organisms
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
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure
UN number	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
vPvM	Very persistent and very mobile

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 3.0 replaces the version of the SDS dated 24/05/2023. Updated substance data in the mixture. Replacement of N,N-dimethyl-p-toluidine, which has been shown to be carcinogenic, with a similar, less toxic substance. Changes cover Sections 2, 3, 11, and 12.

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.