


Villacryl SOFT Płyn

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

- 1.1. Product identifier**
 Substance / mixture: Villacryl SOFT Płyn mixture
 Number: V150
 UFI: 7WD0-V05R-W00Q-1MDV
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
 Liquid component of the material for soft dentures relining Villacryl Soft
Main intended use
 PC-MED-OTH Other medical devices
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
- Full text of all classifications and hazard statements is given in the section 16.
- Most serious adverse effects on human health and the environment**
 Causes serious eye irritation. May cause an allergic skin reaction. Causes skin irritation.
- 2.2. Label elements**
Hazard pictogram
- 
- Signal word**
 Warning
- Hazardous substances**
 n-butyl methacrylate
 methyl methacrylate
 ethylene dimethacrylate

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Hazard statements

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

Precautionary statements

P261	Avoid breathing vapours.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
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
Index: 607-033-00-5 CAS: 97-88-1 EC: 202-615-1	n-butyl methacrylate	<10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335	2
Index: 607-035-00-6 CAS: 80-62-6 EC: 201-297-1	methyl methacrylate	<10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	2, 3
Index: 607-114-00-5 CAS: 97-90-5 EC: 202-617-2	ethylene dimethacrylate	<3	Skin Sens. 1, H317 STOT SE 3, H335	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".
- 3 A substance for which exposure limits are set.

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

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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 inhaled

Terminate the exposure immediately; move the affected person to fresh air.

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**

Not expected.

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. 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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cool, dry and well-ventilated places intended for this purpose, away from sources of fire and heat radiators. Protect against UV (solar) radiation. Keep containers away from incompatible materials by following the directions in Section 10.

Storage class	12 - Other non-combustible liquids
Storage temperature	min 5 °C, max 25 °C

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/m ³	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/m ³	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

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methyl methacrylate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	348.4 mg/m ³	Chronic effects systemic	Toxicity test	ECHA
Workers	Inhalation	208 mg/m ³	Chronic effects local		ECHA
Workers	Inhalation	416 mg/m ³	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 ²	Chronic effects local	Toxicity test	ECHA
Workers	Dermal	1.5 mg/cm ²	Acute effects local	Toxicity test	ECHA
Consumers	Inhalation	74.3 mg/m ³	Chronic effects systemic	Toxicity test	ECHA
Consumers	Inhalation	104 mg/m ³	Chronic effects local	Toxicity test	ECHA
Consumers	Inhalation	208 mg/m ³	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 ²	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 ²	Chronic effects local		ECHA

N,N-dimethyl-p-toluidine					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	128 µg/m ³	Chronic effects systemic	Toxicity test	ECHA
Workers	Dermal	624 µg/kg bw	Chronic effects systemic	Toxicity test	ECHA
Consumers	Inhalation	22.7 µg/m ³	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

n-butyl methacrylate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	415.9 mg/m ³	Chronic effects systemic	Toxicity test	ECHA
Workers	Inhalation	409 mg/m ³	Chronic effects local	Toxicity test	ECHA
Workers	Dermal	5 mg/kg bw/day	Chronic effects systemic	Toxicity test	ECHA
Consumers	Inhalation	66.5 mg/m ³	Chronic effects systemic	Toxicity test	ECHA
Consumers	Inhalation	366.4 mg/m ³	Chronic effects local	Toxicity test	ECHA
Consumers	Dermal	3 mg/kg bw/day	Chronic effects systemic	Toxicity test	ECHA

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8.2. Exposure controls

Take off contaminated clothing and wash before reuse. 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 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

Physical state	liquid
Colour	data not available
Odour	data not available
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available

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 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.

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

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.

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

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n-butyl methacrylate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₀	OECD 401	2000 mg/kg bw		Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Inhalation (vapor)	LC ₅₀	OECD 403	29 mg/l	4 hours	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Oral	LD ₀	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 Zealand 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-butyl methacrylate						
Route of exposure	Result	Method	Exposure time	Species	Value determination	Source
Dermal	Slightly irritating	OECD 404	2 hours	Rabbit (New Zealand White)	Experimentally	ECHA
Eye	Slightly irritating	OECD 405		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-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.

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

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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-dimethyl-p-toluidine

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

n-butyl methacrylate

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

Germ cell mutagenicity

Based on available data the classification criteria are not met.

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

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

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n-butyl methacrylate							
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
Negative without metabolic activation, Negative with metabolic activation	OECD 471			Bacteria (Salmonella typhimurium)		Experimentally	ECHA
Negative without metabolic activation, Negative with metabolic activation	OECD 472			Bacteria (E.coli)		Experimentally	ECHA
Negative	OECD 474			Mouse (Swiss)	F/M	Experimentally	ECHA

Carcinogenicity

Based on available data the classification criteria are not met.

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

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.

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

Based on available data the classification criteria are not met.

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Toxicity for specific target organ - repeated exposure
 Based on available data the classification criteria 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
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/m ³		Rat (Rattus norvegicus)	F/M		ECHA
Inhalation	NOAEC	Local effects		104 mg/m ³		Rat (Rattus norvegicus)			ECHA
Inhalation	LOEC	Local effects		416 mg/m ³		Rat (Rattus norvegicus)			ECHA

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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

n-butyl methacrylate									
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	NOAEL	Change in blood composition, Reduced kidney weight, Enlargement of/effect on the liver	OECD 408	120 mg/kg bw/day	3 months	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Inhalation	NOAEC	Local effects, Systemic effects	OECD 412	1891 ppm	4 weeks (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)	F/M	Experimentally	ECHA
Inhalation	LOAEC	Local effects, Systemic effects	OECD 412	952 ppm	4 weeks (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)	F/M	Experimentally	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

not available

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

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ethylene dimethacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
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
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

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methyl methacrylate

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
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-dimethyl-p-toluidine

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

n-butyl methacrylate

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
NOEC	OECD 203	7 mg/l	96 hours	Fish (Pimephales promelas)	Fresh water		ECHA
LC ₅₀	OECD 203	11 mg/l	96 hours	Fish (Pimephales promelas)	Fresh water		ECHA
EC ₅₀	OECD 202	25.4 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
NOEC	OECD 202	10 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
NOEC	OECD 201	24.8 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
LOEC	OECD 201	47 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
EC ₅₀	OECD 201	31.2 mg/l	72 hours	Algae (Selenastrum capricornutum)	Fresh water	Experimentally	ECHA
NOEC		31.7 mg/l	18 hours	Microorganisms (Pseudomonas putida)		Calculation of value	ECHA

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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
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

n-butyl methacrylate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LOEC	OECD 211	4.9 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
EC ₅₀	OECD 211	8.4 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
NOEC	OECD 211	2.6 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA
LC ₅₀	OECD 211	6.76 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	Experimentally	ECHA

12.2. Persistence and degradability

not available

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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

12.3. Bioaccumulative potential

Data not available.

ethylene dimethacrylate							
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination	Source
BCF	2.96					Experimentally	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

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- 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
- 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

H225	Highly flammable liquid and vapour.
H226	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.
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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
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

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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 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 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 ₀	Lethal dose of a substance in which it can be expected death of 0% of the population
LD ₅₀	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 _{ow}	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

Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
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

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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.

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.