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

1.1. Product identifier

FIBERGEL CLEAR-WHITE-CAMOUFLAGE

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

Use of the substance/mixture

Professional use.
Nail polish and gels

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	Serele srl
Street:	Viale del basento n.118
Place:	85100 Potenza
Telephone:	+3909711935211
E-mail:	info@sabellesa.com
Internet:	www.sabellesa.com

1.4. Emergency telephone number:

112

Further Information

This product is subject to the regulation (EC) No 1223/2009. This sheet was prepared on a voluntary basis.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

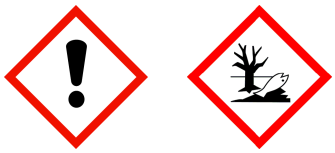
Regulation (EC) No 1272/2008

Hazard components for labelling

Urethane methacrylate
Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid
Aliphatic difunctional urethane Acrylate
Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate
2-hydroxypropyl methacrylate
2,2'-ethylenedioxydiethyldimethacrylate

Signal word: Warning

Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P264	Wash hands and face thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container to local/regional/national/international regulations.

Additional advice on labelling

Labelling according to Regulation (EC) No. 1223/2009.

2.3. Other hazards

Endocrine disrupting properties: 2,6-di-tert-butyl-p-cresol.
The substance is included in one of the lists of endocrine disruptors (list II, human).
This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
-	Urethane methacrylate			70 - < 75 %
	934-759-2			
	Skin Sens. 1, Aquatic Chronic 2; H317 H411			
	Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid			12 - < 15 %
	701-440-2		01-2119970213-43	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
-	Aliphatic difunctional urethane Acrylate			10 - < 12 %
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate			3 - < 5 %
	282-810-6			
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
923-26-2	2-hydroxypropyl methacrylate			1 - < 3 %
	213-090-3	607-125-00-5		
	Eye Irrit. 2, Skin Sens. 1; H319 H317			
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate			1 - < 3 %
	203-652-6		01-2119969287-21	
	Skin Sens. 1B; H317			
128-37-0	2,6-di-tert-butyl-p-cresol			0.1 - < 0.2 %
	204-881-4			

	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
110-82-7	cyclohexane			< 0.1 %
	203-806-2	601-017-00-1		
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
	701-440-2	Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid	12 - < 15 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		
109-16-0	203-652-6	2,2'-ethylenedioxydiethyldimethacrylate	1 - < 3 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 10837 mg/kg		
110-82-7	203-806-2	cyclohexane	< 0.1 %
	inhalation: LC50 = >19,07 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg		

Further Information

cyclohexane: Substance with a common (EC) occupational exposure limit value.

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Sand. Foam. Carbon dioxide (CO2). Extinguishing powder. In case of major fire and large quantities: Water

spray jet. Water mist.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

See protective measures under point 7 and 8.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

When using do not eat, drink or smoke.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.
Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.
Recommended storage temperature: 20 °C
Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
150-76-5	4-Methoxyphenol	-	5		TWA (8 h)	
110-82-7	Cyclohexane	200	700		TWA (8 h)	
112-55-0	Dodecyl mercaptan	0.1	-		TWA (8 h)	
13463-67-7	Titanium dioxide, respirable dust	-	4		TWA (8 h)	
13463-67-7	Titanium dioxide, total inhalable dust	-	10		TWA (8 h)	

DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
	Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid		
Worker DNEL, long-term	dermal	systemic	3,33 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	11,75 mg/m³
Consumer DNEL, long-term	dermal	systemic	1,67 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	1,67 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,9 mg/m³
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate		
Worker DNEL, long-term	inhalation	systemic	4,93 mg/m³
Worker DNEL, long-term	dermal	systemic	1,4 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,87 mg/m³
Consumer DNEL, long-term	dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,5 mg/kg bw/day
13463-67-7	titanium dioxide (> 10 µm)		
Worker DNEL, long-term	inhalation	local	1,25 mg/m³
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate		
Worker DNEL, long-term	inhalation	systemic	48,5 mg/m³
Worker DNEL, long-term	dermal	systemic	13,9 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	14,5 mg/m³

Consumer DNEL, long-term	dermal	systemic	8,33 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	8,33 mg/kg bw/day

PNEC values

CAS No	Substance
Environmental compartment	Value
	Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid
Freshwater	0,003 mg/l
Freshwater (intermittent releases)	0,027 mg/l
Marine water	0 mg/l
Freshwater sediment	0,1881 mg/kg
Marine sediment	0,01881 mg/kg
Micro-organisms in sewage treatment plants (STP)	0,2 mg/l
Soil	0,036 mg/kg
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate
Freshwater	0,00101 mg/l
Freshwater (intermittent releases)	0,0101 mg/l
Marine water	0,000101 mg/l
Freshwater sediment	0,24 mg/kg
Marine sediment	0,024 mg/kg
Soil	0,0475 mg/kg
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate
Freshwater	0,016 mg/l
Freshwater (intermittent releases)	0,016 mg/l
Marine water	0,002 mg/l
Freshwater sediment	0,185 mg/kg
Marine sediment	0,018 mg/kg
Micro-organisms in sewage treatment plants (STP)	1,7 mg/l
Soil	0,027 mg/kg

8.2. Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). EN ISO 16321-1:2022

Hand protection

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:
FKM (fluororubber). - Thickness of glove material: 0,4 mm
Breakthrough time >= 8 h
Butyl rubber. - Thickness of glove material: 0,5 mm
Breakthrough time >= 8 h
CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm
Breakthrough time >= 8 h
NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm
Breakthrough time >= 8 h
PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm
Breakthrough time >= 8 h
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.
Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection necessary at:
-Exceeding exposure limit values
-Insufficient ventilation and aerosol or mist formation
Suitable respiratory protective equipment: particulates filter device (DIN EN 143). type: P1-3
Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	various	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not relevant
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		not determined

Solubility in other solvents
not determined

Dissolution rate:	not relevant
Partition coefficient n-octanol/water:	not relevant
Dispersion stability:	not relevant
Vapour pressure:	not determined
Density:	ca. 1,1 g/cm³
Bulk density:	not relevant
Relative vapour density:	not determined
Particle characteristics:	not relevant

9.2. Other information

Information with regard to physical hazard classes

Explosive properties
none

Sustaining combustion:	No data available

Self-ignition temperature

Solid:	not determined
Gas:	not determined

Oxidizing properties
none

Other safety characteristics

Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	not determined
Solid content:	not determined
Sublimation point:	not relevant
Softening point:	not relevant
Pour point:	not relevant
Viscosity / dynamic:	not determined
Flow time:	not determined

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.
Refer to section 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid				
	oral	LD50 > 5000 mg/kg	Rat	REACH Dossier	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	REACH Dossier	OECD Guideline 402
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate				
	oral	LD50 10837 mg/kg	Rat	REACH Dossier	
	dermal	LD50 > 2000 mg/kg	Mouse	REACH Dossier	
110-82-7	cyclohexane				
	oral	LD50 >5000 mg/kg	Rat	REACH Dossier	
	dermal	LD50 >2000 mg/kg	Rabbit	REACH Dossier	
	inhalation (4 h) vapour	LC50 >19,07 mg/l	Rat	REACH Dossier	

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (Urethane methacrylate; Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid; Aliphatic difunctional urethane Acrylate; Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate; 2-hydroxypropyl methacrylate; 2,2'-ethylenedioxydiethyldimethacrylate; 4-methoxyphenol, hydroquinone monomethyl ether, mequinol; 4-methoxyphenol (p-Hydroxyanisole; hydroquinone monomethyl ether; mequinol); dodecane-1-thiol)

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
2,2'-ethylenedioxydiethyldimethacrylate (CAS-No.: 109-16-0):
In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), OECD Guideline 487 ""In vitro Mammalian Cell Micronucleus Test""; Result: negative. Method: OECD Guideline 476 (In Vitro Mammalian Cell Gene Mutation Test). Result: heterogeneous; Literature information: REACH Dossier; Developmental toxicity/teratogenicity/Reproductive toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Species: Rat; Exposure duration: 35-42 d. Result: NOAEL = 1000 mg/kg(bw)day; Literature information: REACH Dossier

cyclohexane (CAS-No.: 110-82-7):

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result: negative. Literature information: REACH Dossier
Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) Species: Rat; Exposure duration: 11w. Result: NOAEC = 500 ppm; Literature information: REACH Dossier
Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study) Species: Rat; Exposure duration: 10 d. Result: NOAEC = 500 ppm; Literature information: REACH Dossier

STOT-single exposure

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

STOT-repeated exposure

Based on available data, the classification criteria are not met.
cyclohexane (CAS-No.: 110-82-7):
Subchronic inhalation toxicity: Method EPA OPPTS 870.3465 (90-Day Inhalation Toxicity) Species: Rat ; Exposure duration: 90 d Result: NOAEC = 500 ppm. Literature information: REACH Dossier

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

Endocrine disrupting properties: 2,6-di-tert-butyl-p-cresol.
The substance is included in one of the lists of endocrine disruptors (list II).

Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
	Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid						
	Acute fish toxicity	LC50	2,7 mg/l	96 h	Danio rerio	REACH Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50	11 mg/l	72 h	Raphidocelis subcapitata	REACH Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50	37 mg/l	48 h	Daphnia magna	REACH Dossier	OECD Guideline 202
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate						
	Acute fish toxicity	LC50 mg/l	16,4	96 h	Danio rerio	REACH Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Raphidocelis subcapitata	REACH Dossier	EU Method C.3
	Crustacea toxicity	NOEC	32 mg/l	21 d	Daphnia magna	REACH Dossier	EU Method C.20
110-82-7	cyclohexane						
	Acute fish toxicity	LC50 mg/l	4,35	96 h	Pimephales promelas	REACH Dossier	
	Acute algae toxicity	ErC50 mg/l	>4,425	72 h	Raphidocelis subcapitata	REACH Dossier	
	Acute crustacea toxicity	EC50	0,9 mg/l	48 h	Daphnia magna	REACH Dossier	

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source

	Evaluation			
	Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid			
	OECD 301D / EEC 92/69 annex V, C.4-E	41 %	28	REACH Dossier
	Not easily bio-degradable (according to OECD-criteria).			
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate			
	OECD Guideline 301 F	< 10 %	28	REACH Dossier
	Not easily bio-degradable (according to OECD-criteria).			
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	85 %	28	REACH Dossier
	Readily biodegradable (according to OECD criteria).			
110-82-7	cyclohexane			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	77 %	28	REACH Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
	Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid	1
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate	2,91
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate	2,3

BCF

CAS No	Chemical name	BCF	Species	Source
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate	16		REACH Dossier

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.
Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane methacrylate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9

Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane methacrylate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9

Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane methacrylate)
14.3. Transport hazard class(es):	9

14.4. Packing group: III

Hazard label: 9

Marine pollutant: YES
Special Provisions: 274, 335, 969
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane methacrylate)

14.3. Transport hazard class(es): 9

14.4. Packing group: III

Hazard label: 9

Special Provisions: A97 A158 A197 A215
Limited quantity Passenger: 30 kg G
Passenger LQ: Y964
Excepted quantity: E1
IATA-packing instructions - Passenger: 964
IATA-max. quantity - Passenger: 450 L
IATA-packing instructions - Cargo: 964
IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: Urethane methacrylate

14.6. Special precautions for user

refer to section 6 - 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

EU regulatory information

Restrictions on use (REACH, annex XVII):
Entry 3, Entry 75

Directive 2010/75/EU on industrial emissions: not determined

Directive 2004/42/EC on VOC in paints and varnishes: not determined

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)
The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): 3
Regulation (EC) No 1223/2009

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	3 - highly hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
Esterification product of poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-hydroxy- and prop-2-enoic acid
2,2'-ethylenedioxydiethyldimethacrylate

SECTION 16: Other information

Changes

Rev. 1,0; Initial release: 22.01.2025

Abbreviations and acronyms

Flam. Liq: Flammable liquid
Asp. Tox: Aspiration hazard
Skin Irrit: Skin irritation
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of substances and mixtures
DNEL: Derived No Effect Level
d: day(s)
EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European LIst of Notified Chemical Substances
ECHA: European Chemicals Agency
EWC: European Waste Catalogue
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
h: hour
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
NLP: No-Longer Polymers
N/A: not applicable
OECD: Organisation for Economic Co-operation and Development
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
REACH: Registration, Evaluation, Authorisation of Chemicals
SVHC: substance of very high concern
TRGS: Technische Regeln für Gefahrstoffe
UN: United Nations
VOC: Volatile Organic Compounds
WGK: Water Hazard Class (Germany)

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)