

FRENCH Sculpting Gel milkyway

Version number: GHS 1.0

Date of compilation: 13.09.2022

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

1.1 Product identifier

Trade name	FRENCH Sculpting Gel milkyway
Registration number (REACH)	not relevant (mixture)
Alternative number(s)	3052

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

Relevant identified uses	Professional use Nail cosmetics
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1.3 Details of the supplier of the safety data sheet

CosFab GmbH
Reicharten 614
6932 Langen b. Bregenz
Austria

Telephone: +43 5575 20023
Telefax: +43 5575 20023 99
e-mail: info@thecosfab.com
Website: www.thecosfab.com

e-mail (competent person) koschar@thecosfab.com (Mirko Koschar)

1.4 Emergency telephone number

Emergency information service +43 676 6405979
This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Cat-egory	Hazard class and category	Hazard state-ment
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.4S	skin sensitisation	1	Skin Sens. 1	H317
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word danger
- pictograms

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GHS05, GHS07



- hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

- precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to industrial combustion plant.

- hazardous ingredients for labelling

ALIPHATIC URETHANE ACRYLATE, HYDROXYPROPYL METHACRYLATE, TRIETHYLENE GLYCOL DIMETHACRYLATE, ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE, TRIPROPYLENE GLYCOL DIACRYLATE, PPG-2 NEOPENTYL GLYCOL DIACRYLATE

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures














Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
ALIPHATIC URETHANE ACRYLATE	EC No 934-754-5	25 – < 50	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412	
ALIPHATIC URETHANE DIMETHACRYLATE		10 – < 25	Acute Tox. 5 / H303 Acute Tox. 5 / H313 Aquatic Acute 2 / H401	
ALIPHATIC URETHANE METHACRYLATE		10 – < 25		
HYDROXYPROPYL METHACRYLATE	CAS No 27813-02-1 EC No 248-666-3	10 – < 25	Acute Tox. 4 / H302 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Acute 3 / H402	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
TRIETHYLENE GLYCOL DIMETHACRYLATE	CAS No 109-16-0 EC No 203-652-6	5 – < 10	Acute Tox. 5 / H313 Skin Sens. 1B / H317 Aquatic Acute 3 / H402	
SILICA DIMETHYL Silylate	CAS No 68611-44-9 EC No 271-893-4	1 – < 5	Acute Tox. 3 / H331 CDust001	
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	CAS No 84434-11-7 EC No 282-810-6	1 – < 5	Acute Tox. 4 / H312 Skin Sens. 1B / H317 Aquatic Acute 2 / H401 Aquatic Chronic 2 / H411	 
CI 77891 (Titanium Dioxide)	CAS No 13463-67-7 EC No 236-675-5	0,1 – < 1	Carc. 2 / H351 CDust001	
TRIPROPYLENE GLYCOL DIACRYLATE	CAS No 42978-66-5 EC No 256-032-2	0,1 – < 1	Acute Tox. 5 / H303 Acute Tox. 5 / H313 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 STOT SE 3 / H335 Aquatic Acute 2 / H401 Aquatic Chronic 2 / H411	 
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	CAS No 84170-74-1	0,1 – < 1	Acute Tox. 5 / H313 Acute Tox. 4 / H332 Skin Sens. 1B / H317 Aquatic Acute 2 / H401 Aquatic Chronic 2 / H411	 
2-HYDROXYETHYL ACRYLATE	CAS No 818-61-1 EC No 212-454-9	< 0,1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Skin Corr. 1B / H314 Skin Sens. 1 / H317 Aquatic Acute 2 / H401 Aquatic Chronic 3 / H412	 
P-HYDROXYANISOLE	CAS No 150-76-5 EC No 205-769-8	< 0,1	Acute Tox. 4 / H302 Acute Tox. 5 / H313 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Acute 2 / H401 Aquatic Chronic 2 / H411	 

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

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Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Apply cortisone spray at early stage.

Following skin contact

Wash with plenty of soap and water. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Immediately call a POISON CENTER or doctor/physician.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Avoid contact with skin and eyes.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

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Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Protect against: UV-radiation/sunlight, Heat, Cold, Humidity, Keep only in original container, Storage temperature: 5-30 °C

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
DE	titanium dioxide	13463-67-7	MAK		0,3		2,4			r, multi-density	DFG
DE	silica, amorphous	7631-86-9	AGW		4					i, DE-AGW-2, Y	TRGS 900

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

DE-AGW-2 Colloidal amorphous silica (7631-86-9) including fumed silica and produced in wet process silica (precipitated silica, silica gel).

i inhalable fraction

multi-density multiplied by the material density

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

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Notation

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours
time-weighted average (unless otherwise specified)

Y

a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ALIPHATIC URETHANE DIMETHACRYLATE		DNEL	3,52 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
ALIPHATIC URETHANE DIMETHACRYLATE		DNEL	2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
HYDROXYPROPYL METHACRYLATE	27813-02-1	DNEL	4,2 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
HYDROXYPROPYL METHACRYLATE	27813-02-1	DNEL	14,7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	DNEL	48,5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	DNEL	13,9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
SILICA DIMETHYL SILYLATE	68611-44-9	DNEL	4 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHINATE	84434-11-7	DNEL	4,93 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHINATE	84434-11-7	DNEL	1,4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
CI 77891 (Titanium Dioxide)	13463-67-7	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	DNEL	2,35 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	DNEL	1,7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	DNEL	11,75 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	DNEL	3,33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	DNEL	117 µg/cm ²	human, dermal	worker (industry)	acute - local effects

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Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-HYDROXYETHYL ACRYLATE	818-61-1	DNEL	2,4 mg/m ³	human, inhalat-ory	worker (industry)	chronic - local ef-fects
P-HYDROXYAN-IOLE	150-76-5	DNEL	3 mg/m ³	human, inhalat-ory	worker (industry)	chronic - systemic effects
P-HYDROXYAN-IOLE	150-76-5	DNEL	10 mg/m ³	human, inhalat-ory	worker (industry)	acute - systemic effects

Relevant PNECs of components of the mixture

Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,904 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,904 mg/l	aquatic organ-isms	marine water	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	10 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	6,28 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	6,28 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,727 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,972 mg/l	aquatic organ-isms	water	intermittent re-lease
TRIETHYLENE GLYCOL DIMETHAC-RYLATE	109-16-0	PNEC	0,164 mg/l	aquatic organ-isms	water	intermittent re-lease
TRIETHYLENE GLYCOL DIMETHAC-RYLATE	109-16-0	PNEC	0,016 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
TRIETHYLENE GLYCOL DIMETHAC-RYLATE	109-16-0	PNEC	0,002 mg/l	aquatic organ-isms	marine water	short-term (single instance)
TRIETHYLENE GLYCOL DIMETHAC-RYLATE	109-16-0	PNEC	1,7 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
TRIETHYLENE GLYCOL DIMETHAC-RYLATE	109-16-0	PNEC	0,185 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
TRIETHYLENE GLYCOL DIMETHAC-RYLATE	109-16-0	PNEC	0,018 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
TRIETHYLENE GLYCOL DIMETHAC-RYLATE	109-16-0	PNEC	0,027 mg/kg	terrestrial organ-isms	soil	short-term (single instance)

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Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHIN-ATE	84434-11-7	PNEC	1,01 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHIN-ATE	84434-11-7	PNEC	0,101 µg/l	aquatic organ-isms	marine water	short-term (single instance)
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHIN-ATE	84434-11-7	PNEC	0,24 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHIN-ATE	84434-11-7	PNEC	24 µg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHIN-ATE	84434-11-7	PNEC	47,5 µg/kg	terrestrial organ-isms	soil	short-term (single instance)
CI 77891 (Titanium Dioxide)	13463-67-7	PNEC	0,184 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
CI 77891 (Titanium Dioxide)	13463-67-7	PNEC	0,018 mg/l	aquatic organ-isms	marine water	short-term (single instance)
CI 77891 (Titanium Dioxide)	13463-67-7	PNEC	100 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
CI 77891 (Titanium Dioxide)	13463-67-7	PNEC	1.000 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
CI 77891 (Titanium Dioxide)	13463-67-7	PNEC	100 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
CI 77891 (Titanium Dioxide)	13463-67-7	PNEC	100 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
TRIPROPYLENE GLYCOL DIAC-RYLATE	42978-66-5	PNEC	0,73 mg/l	aquatic organ-isms	water	intermittent re-lease
TRIPROPYLENE GLYCOL DIAC-RYLATE	42978-66-5	PNEC	0,005 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
TRIPROPYLENE GLYCOL DIAC-RYLATE	42978-66-5	PNEC	0 mg/l	aquatic organ-isms	marine water	short-term (single instance)
TRIPROPYLENE GLYCOL DIAC-RYLATE	42978-66-5	PNEC	10 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
TRIPROPYLENE GLYCOL DIAC-RYLATE	42978-66-5	PNEC	0,487 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
TRIPROPYLENE GLYCOL DIAC-RYLATE	42978-66-5	PNEC	0,049 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	PNEC	0,095 mg/kg	terrestrial organisms	soil	short-term (single instance)
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	PNEC	0,003 mg/l	aquatic organisms	freshwater	short-term (single instance)
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	PNEC	0,2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	PNEC	188,1 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	PNEC	18,81 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	PNEC	36 µg/kg	terrestrial organisms	soil	short-term (single instance)
2-HYDROXYETHYL ACRYLATE	818-61-1	PNEC	0,0096 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-HYDROXYETHYL ACRYLATE	818-61-1	PNEC	0,00096 mg/l	aquatic organisms	marine water	short-term (single instance)
2-HYDROXYETHYL ACRYLATE	818-61-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-HYDROXYETHYL ACRYLATE	818-61-1	PNEC	0,0355 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-HYDROXYETHYL ACRYLATE	818-61-1	PNEC	0,00355 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-HYDROXYETHYL ACRYLATE	818-61-1	PNEC	0,00147 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-HYDROXYETHYL ACRYLATE	818-61-1	PNEC	0,0361 mg/l	aquatic organisms	water	intermittent release
P-HYDROXYANISOLE	150-76-5	PNEC	0,014 mg/l	aquatic organisms	freshwater	short-term (single instance)
P-HYDROXYANISOLE	150-76-5	PNEC	0,001 mg/l	aquatic organisms	marine water	short-term (single instance)
P-HYDROXYANISOLE	150-76-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
P-HYDROXYANISOLE	150-76-5	PNEC	0,125 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
P-HYDROXYANISOLE	150-76-5	PNEC	0,013 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

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Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
P-HYDROXYAN-IOLE	150-76-5	PNEC	0,017 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls



Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid (gel)
Colour	white
Odour	like esters
Melting point/freezing point	not determined
Siedepunkt	not determined
Flammability	this material is combustible, but will not ignite readily

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Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	183.333 mm ² /s at 22 °C
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	not determined
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Density and/or relative density

Density	1 – 1,2 g/cm ³ at 22 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
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Other safety characteristics

Solvent content	0 %
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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

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10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
ALIPHATIC URETHANE DIMETHACRYLATE		oral	>2.000 mg/kg
ALIPHATIC URETHANE DIMETHACRYLATE		dermal	>2.000 mg/kg
HYDROXYPROPYL METHACRYLATE	27813-02-1	oral	2.000 mg/kg
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	dermal	>2.000 mg/kg
SILICA DIMETHYL SILYLATE	68611-44-9	inhalation: dust/mist	>0,69 mg/l/4h
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	dermal	≥2.000 mg/kg
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	oral	>2.000 mg/kg
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	dermal	>2.000 mg/kg
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	dermal	>2.000 mg/kg
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	inhalation: vapour	11 mg/l/4h
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	inhalation: dust/mist	>2 mg/l/4h
2-HYDROXYETHYL ACRYLATE	818-61-1	oral	960,5 mg/kg
2-HYDROXYETHYL ACRYLATE	818-61-1	dermal	>1.000 mg/kg
P-HYDROXYANISOLE	150-76-5	oral	500 mg/kg
P-HYDROXYANISOLE	150-76-5	dermal	>2.000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

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Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Harmful to aquatic life with long lasting effects.

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	LC50	23,1 mg/l	fish	24 h
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	EC50	51,9 mg/l	aquatic invertebrates	21 d
SILICA DIMETHYL Silylate	68611-44-9	EL50	>1.000 mg/l	aquatic invertebrates	24 h
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHINATE	84434-11-7	EC50	>1.000 mg/l	microorganisms	180 min
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	EC50	>1.000 mg/l	microorganisms	30 min
2-HYDROXYETHYL ACRYLATE	818-61-1	EC50	0,74 mg/l	aquatic invertebrates	21 d
P-HYDROXYANISOLE	150-76-5	LC50	>1,45 mg/l	aquatic invertebrates	21 d
P-HYDROXYANISOLE	150-76-5	EC50	1,42 mg/l	aquatic invertebrates	21 d

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12.2 Persistence and degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
ALIPHATIC URETHANE DIMETHACRYLATE		oxygen depletion	24 %	28 d		ECHA
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	carbon dioxide generation	85 %	28 d		ECHA
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	oxygen depletion	<10 %	28 d		ECHA
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	carbon dioxide generation	48 %	28 d		ECHA
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1	oxygen depletion	41 %	28 d		ECHA
2-HYDROXYETHYL ACRYLATE	818-61-1	carbon dioxide generation	79 %	28 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
ALIPHATIC URETHANE DIMETHACRYLATE			3,43 (pH value: 6,44)	
HYDROXYPROPYL METHACRYLATE	27813-02-1		0,97 (pH value: 2, 20 °C)	
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0		2,3	
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7		2,91 (pH value: 4,4, 25 °C)	
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5		>2,5 – <2,7 (pH value: 6,7, 23 °C)	
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1		1 (pH value: 6,44)	
2-HYDROXYETHYL ACRYLATE	818-61-1		-0,17 (25 °C)	

12.4 Mobility in soil

Data are not available.

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12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Information on this property is not available.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | |
|--|---|
| 14.1 UN number | not assigned |
| 14.2 UN proper shipping name | not relevant |
| ADN | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 14.3 Transport hazard class(es) | |
| ADN | 9 |
| 14.4 Packing group | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user | |
| See chapter 6 to 8. | |
| 14.7 Maritime transport in bulk according to IMO instruments | |
| The delivery takes place exclusively in packaging approved and suitable for traffic law. | |

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Not subject to ADR. Not subject to RID.

International Maritime Dangerous Goods Code (IMDG) - additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Not subject to ICAO-IATA.

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SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Content of VOC of the product in a ready to use condition

VOC content 21,61 %

Solvent content 0 %

International Nomenclature of Cosmetic Ingredients

Name of substance	CAS No	EC No	Wt%
ALIPHATIC URETHANE ACRYLATE		934-754-5	25 – < 50
ALIPHATIC URETHANE DIMETHACRYLATE			10 – < 25
ALIPHATIC URETHANE METHACRYLATE			10 – < 25
HYDROXYPROPYL METHACRYLATE	27813-02-1	248-666-3	10 – < 25
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	203-652-6	5 – < 10
SILICA DIMETHYL SILYLATE	68611-44-9	271-893-4	1 – < 5
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	282-810-6	1 – < 5
CI 77891 (Titanium Dioxide)	13463-67-7	236-675-5	0,1 – < 1
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	256-032-2	0,1 – < 1
PPG-2 NEOPENTYL GLYCOL DIACRYLATE	84170-74-1		0,1 – < 1
2-HYDROXYETHYL ACRYLATE	818-61-1	212-454-9	< 0,1
P-HYDROXYANISOLE	150-76-5	205-769-8	< 0,1

Product characteristics

PAO 12 months. The product is auto-sterile and contains no water. Therefore it is uncritical related to microbiological hazards. The product contains no nano-materials.

Remarks to labelling according to cosmetic regulation 1223/2009/EU

For professional users only. Please read instructions carefully. Avoid skin contact.

Optional warnings for labelling

Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. If skin irritation occurs: Get medical advice/attention. Keep away from open flames and hot surfaces. No smoking.

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 1 slightly hazardous to water
(water hazard class)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 10 (combustible liquids)

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National inventories

Country	Inventory	Status
US	TSCA	not all ingredients are listed

Legend

TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances

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Abbr.	Descriptions of used abbreviations
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.