Safety Data Sheet

FRENCH Brush on - perfect white

Version number: GHS 2.0
Replaces version of: 13.09.2022 (GHS 1)

Revision: 18.06.2025

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

1.1 Product identifier

Trade name	**FRENCH Brush on - perfect white**
Registration number (REACH)	not relevant (mixture)
Alternative number(s)	6347

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

Relevant identified uses	Professional use Nail cosmetics

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 Euro-Notruf: 112 This number is only for medical emergencies 24 hours emergency information	+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 statement
3.1D	acute toxicity (dermal)	5	Acute Tox. 5	H313
3.2	skin corrosion/irritation	3	Skin Irrit. 3	H316
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4S	skin sensitisation	1	Skin Sens. 1	H317
4.1A	hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

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 warning

- pictograms

GHS07, GHS09

- hazard statements

H313	May be harmful in contact with skin.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

- precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264+P265	Wash hands thoroughly after handling. Do not touch eyes.
P280	Wear eye protection/face protection.
P302+P317	IF ON SKIN: Get medical help.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P317	If eye irritation persists: Get medical help.
P391	Collect spillage.
P501	Dispose of contents/container to industrial combustion plant.

- hazardous ingredients for labelling: DIPENTAERYTHRITYL PENTAACRYLATE, DI-HEMA TRIMETHYLHEXYL DICARBAMATE, ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE, PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE, TRIETHYLENE GLYCOL DIMETHACRYLATE, BIS-TRIMETHYLBENZOYL PHENYLPHOSPHINE OXIDE, HYDROXYPROPYL METHACRYLATE, TRIPROPYLENE GLYCOL DIACRYLATE

2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

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
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	CAS No 72869-86-4 EC No 276-957-5	25 – < 50	Acute Tox. 5 / H313 Skin Sens. 1B / H317 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	
CI 77891	CAS No 13463-67-7	25 – < 50		

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
	EC No 236-675-5			
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	CAS No 84434-11-7 EC No 282-810-6	10 – < 25	Acute Tox. 4 / H312 Skin Sens. 1B / H317 Aquatic Acute 2 / H401 Aquatic Chronic 2 / H411	
DIPENTAERYTHRITYL PENTAACRYLATE	CAS No 1384855-91-7 EC No 262-270-8 800-838-4	10 – < 25	Acute Tox. 5 / H303 Acute Tox. 5 / H313 Eye Irrit. 2 / H319 Skin Sens. 1A / H317 Aquatic Acute 2 / H401 Aquatic Chronic 3 / H412	
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	CAS No 28961-43-5 EC No 500-066-5	10 – < 25	Acute Tox. 5 / H303 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Acute 2 / H401	
ALIPHATIC URETHANE ACRYLATE	CAS No n.a. EC No n.a.	5 – < 10	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	
ETHYL ACETATE	CAS No 141-78-6 EC No 205-500-4	1 – < 5	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	
SILICA DIMETHYL SILYLATE	CAS No 68611-44-9 EC No 271-893-4	1 – < 5	Acute Tox. 3 / H331 CDust001	
TRIETHYLENE GLYCOL DIMETHACRYLATE	CAS No 109-16-0 EC No 203-652-6	1 – < 5	Acute Tox. 5 / H313 Skin Sens. 1B / H317 Aquatic Acute 3 / H402	
BENZOYL ISOPROPANOL	CAS No 7473-98-5 EC No 231-272-0	1 – < 5	Acute Tox. 4 / H302 Aquatic Acute 2 / H401 Aquatic Chronic 3 / H412	
BIS-TRIMETHYLBENZOYL PHENYLPHOSPHINE OXIDE	CAS No 162881-26-7 EC No 423-340-5	0,1 – < 1	Skin Sens. 1A / H317 Aquatic Chronic 4 / H413 CDust001	
BHT	CAS No 128-37-0 EC No 204-881-4	0,1 – < 1	Acute Tox. 5 / H313 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
HYDROXYPROPYL METHACRYLATE	CAS No 27813-02-1 EC No 248-666-3	0,1 – < 1	Acute Tox. 4 / H302 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Acute 3 / H402	

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
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	
BIS(T-BUTYL BEN-ZOXAZOLYL) THIOPHENE	CAS No 7128-64-5	0,1 – < 1	Acute Tox. 4 / H332 Aquatic Chronic 4 / H413 CDust001	
CI 60725 (D&C Violet No. 2)	CAS No 81-48-1 EC No 201-353-5	0 – < 0,1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 Aquatic Acute 2 / H401 Aquatic Chronic 2 / H411 CDust001	
P-HYDROXYANISOLE	CAS No 150-76-5 EC No 205-769-8	0 – < 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	

Remarks

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.

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

Nitrogen oxides (NOx), 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. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

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: 10-25°C

- packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

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/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
DE	2,6-di-tert-butyl-p-cresol	128-37-0	AGW		10		40			i, va, Y	TRGS 900
DE	titanium dioxide	13463-67-7	MAK		0,3		2,4			r, mult-density, ex-uf-dust	DFG
DE	ethyl acetate	141-78-6	MAK	200	750	400	1.500				DFG
DE	ethyl acetate	141-78-6	AGW	200	730	400	1.460			Y	TRGS 900
DE	silica, amorph-ous	7631-86-9	AGW		1		8			i, DE-AGW-2, Y	TRGS 900
DE	silica, amorph-ous	7631-86-9	MAK		0,02		0,16			r	DFG
EU	ethyl acetate	141-78-6	IOELV	200	734	400	1.468				2017/164/EU

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).
ex-uf-dust	except ultrafine particles
i	inhalable fraction
mult-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)
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)
va	as vapours and aerosols
Y	a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological

Notation

limit value (BGW) are adhered to

Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
DE	butylated hydroxytoluene (BHT)	butylated hydroxytoluene acid	hydr	BAT (BAR)	7 µg/l	DFG

Notation

hydr hydrolysis

Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	DNEL	3,3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	DNEL	1,3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
CI 77891	13463-67-7	DNEL	10 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	DNEL	4,93 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	DNEL	1,4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	DNEL	1,76 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	DNEL	0,5 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5	DNEL	16,2 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5	DNEL	0,8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ETHYL ACETATE	141-78-6	DNEL	734 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
ETHYL ACETATE	141-78-6	DNEL	1.468 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
ETHYL ACETATE	141-78-6	DNEL	734 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
ETHYL ACETATE	141-78-6	DNEL	1.468 mg/m³	human, inhalatory	worker (industry)	acute - local effects
ETHYL ACETATE	141-78-6	DNEL	63 mg/kg	human, dermal	worker (industry)	chronic - systemic

Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
			bw/day			effects
SILICA DIMETHYL SILYLATE	68611-44-9	DNEL	4 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	DNEL	48,5 mg/m³	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
BENZOYL ISOPROPANOL	7473-98-5	DNEL	3,5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
BENZOYL ISOPROPANOL	7473-98-5	DNEL	1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
BHT	128-37-0	DNEL	1,76 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
BHT	128-37-0	DNEL	0,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
HYDROXYPROPYL METHACRYLATE	27813-02-1	DNEL	14,7 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
HYDROXYPROPYL METHACRYLATE	27813-02-1	DNEL	4,2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	DNEL	2,35 mg/m³	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
BIS(T-BUTYL BENZOXAZOLYL) THIOPHENE	7128-64-5	DNEL	3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
BIS(T-BUTYL BENZOXAZOLYL) THIOPHENE	7128-64-5	DNEL	7,1 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
P-HYDROXYANISOLE	150-76-5	DNEL	10 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
P-HYDROXYANISOLE	150-76-5	DNEL	3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	PNEC	0,01 mg/l	aquatic organisms	freshwater	short-term (single instance)
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	PNEC	0,001 mg/l	aquatic organisms	marine water	short-term (single instance)
DI-HEMA TRI-	72869-86-4	PNEC	3,61 mg/l	aquatic organ-	sewage treatment	short-term (single

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
METHYLHEXYL DICARBAMATE				isms	plant (STP)	instance)
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	PNEC	4,56 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	PNEC	0,46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	PNEC	0,91 mg/kg	terrestrial organisms	soil	short-term (single instance)
CI 77891	13463-67-7	PNEC	0,184 mg/l	aquatic organisms	freshwater	short-term (single instance)
CI 77891	13463-67-7	PNEC	0,018 mg/l	aquatic organisms	marine water	short-term (single instance)
CI 77891	13463-67-7	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
CI 77891	13463-67-7	PNEC	1.000 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
CI 77891	13463-67-7	PNEC	100 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
CI 77891	13463-67-7	PNEC	100 mg/kg	terrestrial organisms	soil	short-term (single instance)
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	PNEC	1,01 µg/l	aquatic organisms	freshwater	short-term (single instance)
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	PNEC	0,101 µg/l	aquatic organisms	marine water	short-term (single instance)
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	PNEC	0,24 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	PNEC	24 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	PNEC	47,5 µg/kg	terrestrial organisms	soil	short-term (single instance)
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	PNEC	0,13 mg/l	aquatic organisms	water	intermittent release
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	PNEC	8,9 µg/l	aquatic organisms	freshwater	short-term (single instance)
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	PNEC	0,89 µg/l	aquatic organisms	marine water	short-term (single instance)

Relevant PNECs of components

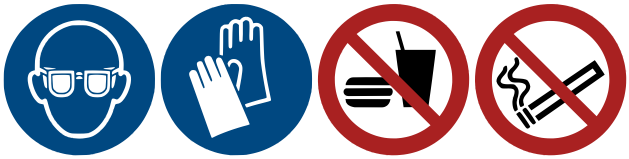
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	PNEC	1,8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	PNEC	383 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	PNEC	38,3 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	PNEC	60 µg/kg	terrestrial organisms	soil	short-term (single instance)
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5	PNEC	0,002 mg/l	aquatic organisms	freshwater	short-term (single instance)
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5	PNEC	0,008 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5	PNEC	0,001 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5	PNEC	0,006 mg/kg	terrestrial organisms	soil	short-term (single instance)
ETHYL ACETATE	141-78-6	PNEC	1,65 mg/l	aquatic organisms	water	intermittent release
ETHYL ACETATE	141-78-6	PNEC	0,24 mg/l	aquatic organisms	freshwater	short-term (single instance)
ETHYL ACETATE	141-78-6	PNEC	0,024 mg/l	aquatic organisms	marine water	short-term (single instance)
ETHYL ACETATE	141-78-6	PNEC	650 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ETHYL ACETATE	141-78-6	PNEC	1,15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ETHYL ACETATE	141-78-6	PNEC	0,115 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
ETHYL ACETATE	141-78-6	PNEC	0,148 mg/kg	terrestrial organisms	soil	short-term (single instance)
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	PNEC	0,164 mg/l	aquatic organisms	water	intermittent release
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	PNEC	0,016 mg/l	aquatic organisms	freshwater	short-term (single instance)
TRIETHYLENE	109-16-0	PNEC	0,002 mg/l	aquatic organ-	marine water	short-term (single

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
GLYCOL DIMETHACRYLATE				isms		instance)
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	PNEC	1,7 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	PNEC	0,185 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	PNEC	0,018 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	PNEC	0,027 mg/kg	terrestrial organisms	soil	short-term (single instance)
BENZOYL ISOPROPANOL	7473-98-5	PNEC	0,002 mg/l	aquatic organisms	freshwater	short-term (single instance)
BENZOYL ISOPROPANOL	7473-98-5	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
BENZOYL ISOPROPANOL	7473-98-5	PNEC	45 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
BENZOYL ISOPROPANOL	7473-98-5	PNEC	0,009 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
BENZOYL ISOPROPANOL	7473-98-5	PNEC	0,001 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
BENZOYL ISOPROPANOL	7473-98-5	PNEC	0,001 mg/kg	terrestrial organisms	soil	short-term (single instance)
BHT	128-37-0	PNEC	8,33 mg/kg	aquatic organisms	water	short-term (single instance)
BHT	128-37-0	PNEC	1,99 µg/l	aquatic organisms	water	intermittent release
BHT	128-37-0	PNEC	0,199 µg/l	aquatic organisms	freshwater	short-term (single instance)
BHT	128-37-0	PNEC	0,02 µg/l	aquatic organisms	marine water	short-term (single instance)
BHT	128-37-0	PNEC	0,017 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
BHT	128-37-0	PNEC	0,458 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
BHT	128-37-0	PNEC	0,046 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
BHT	128-37-0	PNEC	0,054 mg/kg	terrestrial organisms	soil	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,972 mg/l	aquatic organisms	water	intermittent release
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,904 mg/l	aquatic organisms	freshwater	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,09 mg/l	aquatic organisms	marine water	short-term (single instance)
HYDROXYPROPYL	27813-02-1	PNEC	10 mg/l	aquatic organ-	sewage treatment	short-term (single

Relevant PNECs of components						
Name of substance	**CAS No**	**End-point**	**Threshold level**	**Organism**	**Environmental compartment**	**Exposure time**
METHACRYLATE				isms	plant (STP)	instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	4,13 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,413 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,295 mg/kg	terrestrial organisms	soil	short-term (single instance)
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	PNEC	0,73 mg/l	aquatic organisms	water	intermittent release
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	PNEC	0,005 mg/l	aquatic organisms	freshwater	short-term (single instance)
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	PNEC	0,487 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	PNEC	0,049 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	PNEC	0,095 mg/kg	terrestrial organisms	soil	short-term (single instance)
BIS(T-BUTYL BENZOXAZOLYL) THIOPHENE	7128-64-5	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
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)
P-HYDROXYANISOLE	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
Colour	not determined
Odour	characteristic
Melting point/freezing point	not determined
Siedepunkt	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not determined
Dynamic viscosity	not determined
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available

Vapour pressure	not determined

Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)

9.2 Other information

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

Other safety characteristics

Liquid content	3,844 %

SECTION 10: Stability and reactivity

10.1 Reactivity

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

If heated:

Exothermic polymerisation

If exposed to light:

Exothermic polymerisation.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from heat. UV-radiation/sunlight.

10.5 Incompatible materials

Reducing agents, There is no additional information.

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

May be harmful in contact with skin.

- acute toxicity estimate (ATE)
Dermal >3.096 $^{mg}/_{kg}$

Acute toxicity estimate (ATE) of components			
Name of substance	**CAS No**	**Exposure route**	**ATE**
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	dermal	>2.000 $^{mg}/_{kg}$
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	dermal	≥2.000 $^{mg}/_{kg}$
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	oral	>2.000 $^{mg}/_{kg}$
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	dermal	>2.000 $^{mg}/_{kg}$
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5	oral	>2.000 $^{mg}/_{kg}$
SILICA DIMETHYL SILYLATE	68611-44-9	inhalation: dust/mist	>0,69 $^{mg}/_{l}$/4h
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	dermal	>2.000 $^{mg}/_{kg}$
BENZOYL ISOPROPANOL	7473-98-5	oral	1.694 $^{mg}/_{kg}$
BHT	128-37-0	dermal	>2.000 $^{mg}/_{kg}$
HYDROXYPROPYL METHACRYLATE	27813-02-1	oral	2.000 $^{mg}/_{kg}$
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	oral	>2.000 $^{mg}/_{kg}$
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	dermal	>2.000 $^{mg}/_{kg}$
BIS(T-BUTYL BENZOXAZOLYL) THIOPHENE	7128-64-5	inhalation: dust/mist	>1,82 $^{mg}/_{l}$/4h
P-HYDROXYANISOLE	150-76-5	oral	500 $^{mg}/_{kg}$
P-HYDROXYANISOLE	150-76-5	dermal	>2.000 $^{mg}/_{kg}$

Skin corrosion/irritation

Causes mild skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

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: Very toxic 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 2, obviously hazardous to water (Germany)

Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
DI-HEMA TRIMETHYL-HEXYL DICARBAMATE	72869-86-4	LC50	10,1 $^{mg}/_{l}$	fish	96 h
DI-HEMA TRIMETHYL-HEXYL DICARBAMATE	72869-86-4	EC50	>1,2 $^{mg}/_{l}$	aquatic invertebrates	48 h
DI-HEMA TRIMETHYL-HEXYL DICARBAMATE	72869-86-4	ErC50	>0,68 $^{mg}/_{l}$	algae	72 h
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHINATE	84434-11-7	ErC50	1,01 $^{mg}/_{l}$	algae	72 h
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHINATE	84434-11-7	LC50	1,89 $^{mg}/_{l}$	zebra fish (Danio rerio)	96 h
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHINATE	84434-11-7	EC50	2,26 $^{mg}/_{l}$	daphnia magna	48 h
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	LC50	8,9 $^{mg}/_{l}$	fish	96 h
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	LL50	13 $^{mg}/_{l}$	fish	96 h
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	EC50	18 $^{mg}/_{l}$	aquatic invertebrates	48 h
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	EL50	35 $^{mg}/_{l}$	aquatic invertebrates	48 h
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	ErC50	>36 $^{mg}/_{l}$	algae	72 h
PEG-6 TRIMETHYLOL-PROPANE TRIACRYLATE	28961-43-5	LC50	1,95 $^{mg}/_{l}$	fish	96 h
PEG-6 TRIMETHYLOL-PROPANE TRIACRYLATE	28961-43-5	EC50	70,7 $^{mg}/_{l}$	aquatic invertebrates	48 h
PEG-6 TRIMETHYLOL-PROPANE TRIACRYLATE	28961-43-5	ErC50	2,2 $^{mg}/_{l}$	algae	72 h
ETHYL ACETATE	141-78-6	LC50	230 $^{mg}/_{l}$	fathead minnow (Pimephales promelas)	96 h
ETHYL ACETATE	141-78-6	EC50	220 $^{mg}/_{l}$	fathead minnow (Pimephales promelas)	96 h
TRIETHYLENE GLYCOL	109-16-0	LC50	23,1 $^{mg}/_{l}$	fish	24 h

Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
DIMETHACRYLATE					
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	ErC50	>100 mg/l	algae	72 h
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	EC50	72,8 mg/l	algae	72 h
BENZOYL ISOPROPANOL	7473-98-5	LC50	160 mg/l	fish	48 h
BENZOYL ISOPROPANOL	7473-98-5	EC50	>119 mg/l	aquatic invertebrates	48 h
BENZOYL ISOPROPANOL	7473-98-5	ErC50	1,95 mg/l	algae	72 h
BHT	128-37-0	LC50	>0,57 mg/l	fish	96 h
BHT	128-37-0	EC50	0,48 mg/l	aquatic invertebrates	48 h
BHT	128-37-0	ErC50	>0,4 mg/l	algae	72 h
HYDROXYPROPYL METHACRYLATE	27813-02-1	LC50	493 mg/l	fish	48 h
HYDROXYPROPYL METHACRYLATE	27813-02-1	ErC50	>97,2 mg/l	algae	72 h
HYDROXYPROPYL METHACRYLATE	27813-02-1	EC50	>143 mg/l	daphnia magna	48 h
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	LC50	<10 mg/l	fish	96 h
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	EC50	89 mg/l	aquatic invertebrates	48 h
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	ErC50	65,9 mg/l	algae	72 h
BIS(T-BUTYL BENZOXAZOLYL) THIOPHENE	7128-64-5	LC50	>100 mg/l	fish	96 h
BIS(T-BUTYL BENZOXAZOLYL) THIOPHENE	7128-64-5	EL50	>100 mg/l	aquatic invertebrates	48 h
BIS(T-BUTYL BENZOXAZOLYL) THIOPHENE	7128-64-5	ErC50	>100 mg/l	algae	72 h
CI 60725 (D&C Violet No. 2)	81-48-1	LC50	>500 mg/l	fish	96 h
CI 60725 (D&C Violet No. 2)	81-48-1	EC50	>100 mg/l	aquatic invertebrates	48 h
CI 60725 (D&C Violet No. 2)	81-48-1	ErC50	>1,1 mg/l	algae	72 h
P-HYDROXYANISOLE	150-76-5	ErC50	54,7 mg/l	algae	72 h
P-HYDROXYANISOLE	150-76-5	LC50	28,5 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
P-HYDROXYANISOLE	150-76-5	EC50	3 mg/l	daphnia magna	48 h

Aquatic toxicity (chronic) of components					
Name of substance	**CAS No**	**Endpoint**	**Value**	**Species**	**Exposure time**
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHINATE	84434-11-7	EC50	>1.000 mg/l	microorganisms	180 min
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	EC50	>100 mg/l	microorganisms	3 h
ETHYL ACETATE	141-78-6	EC50	2.306 mg/l	aquatic invertebrates	24 h
SILICA DIMETHYL SILYLATE	68611-44-9	EL50	>1.000 mg/l	aquatic invertebrates	24 h
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
BENZOYL ISOPRO-PANOL	7473-98-5	EC50	>1.000 mg/l	microorganisms	180 min
BHT	128-37-0	EC50	0,096 mg/l	aquatic invertebrates	21 d
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	EC50	>1.000 mg/l	microorganisms	30 min
BIS(T-BUTYL BEN-ZOXAZOLYL) THIOPHENE	7128-64-5	EC50	>100 mg/l	microorganisms	3 h
P-HYDROXYANISOLE	150-76-5	LC50	>1,45 mg/l	daphnia magna	21 d
P-HYDROXYANISOLE	150-76-5	EC50	1,42 mg/l	daphnia magna	21 d

12.2 Persistence and degradability

Degradability of components						
Name of substance	**CAS No**	**Process**	**Degradation rate**	**Time**	**Method**	**Source**
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	carbon dioxide generation	22 %	28 d		ECHA
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	oxygen depletion	<10 %	28 d		ECHA Chem
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	carbon dioxide generation	0 %	29 d		ECHA
ETHYL ACETATE	141-78-6	oxygen depletion	62 %	5 d		ECHA Chem
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	carbon dioxide generation	85 %	28 d		ECHA
BENZOYL ISOPROPANOL	7473-98-5	carbon dioxide generation	≥90 – ≤100 %	28 d		ECHA
BIS-TRI-	162881-26-7	carbon dioxide	1 %	29 d		ECHA

Degradability of components						
Name of substance	**CAS No**	**Process**	**Degradation rate**	**Time**	**Method**	**Source**
METHYLBENZOYL PHENYLPHOSPHINE OXIDE		generation				
HYDROXYPROPYL METHACRYLATE	27813-02-1	DOC removal	94,2 %	28 d		ECHA Chem
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	carbon dioxide generation	48 %	28 d		ECHA
BIS(T-BUTYL BENZOXAZOLYL) THIOPHENE	7128-64-5	carbon dioxide generation	4 %	28 d		ECHA
CI 60725 (D&C Violet No. 2)	81-48-1	oxygen depletion	0 %	28 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components				
Name of substance	**CAS No**	**BCF**	**Log KOW**	**BOD5/COD**
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4		3,39 (20 °C)	
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7		2,91 (25 °C)	
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	86,4	4,55	
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5		2,89 (pH value: 8,1, 23 °C)	
ETHYL ACETATE	141-78-6	30	0,68 (25 °C)	
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0		2,3	
BENZOYL ISOPROPANOL	7473-98-5		1,62 (pH value: 5,75, 25 °C)	
BIS-TRIMETHYLBENZOYL PHENYLPHOSPHINE OXIDE	162881-26-7	<5	5,8 (pH value: 8,3, 22 °C)	
BHT	128-37-0	598,4	5,1	
HYDROXYPROPYL METHACRYLATE	27813-02-1		0,97 (20 °C)	
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5		>2,5 – <2,7 (pH value: 6,7, 23 °C)	
BIS(T-BUTYL BENZOXAZOLYL) THIOPHENE	7128-64-5		>6,5 (pH value: 6,1, 23 °C)	
CI 60725 (D&C Violet No. 2)	81-48-1		4,26 (25 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

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

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. 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

ADR/RID/ADN	UN 3082
IMDG-Code	UN 3082
ICAO-TI	UN 3082

14.2 UN proper shipping name

	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. DI-HEMA TRIMETHYLHEXYL DICARBAMATE ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE
ADR/RID/ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.

14.3 Transport hazard class(es)

ADR/RID/ADN	9
IMDG-Code	9
ICAO-TI	9

14.4 Packing group

ADR/RID/ADN	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

hazardous to the aquatic environment

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

Classification code	M6
Danger label(s)	9, fish and tree

Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	274, 335, 375, 601, 650
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	-
Hazard identification No	90

International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant	yes (hazardous to the aquatic environment) (DI-HEMA TRI-METHYLHEXYL DICARBAMATE)
Danger label(s)	9, fish and tree

Special provisions (SP)	274, 335, 375, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A

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

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	9, fish and tree

Special provisions (SP)	A97, A158, A197, A215
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

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)

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

not relevant

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

VOC content	49,86 %
Solvent content	3,844 %, ethyl acetate

International Nomenclature of Cosmetic Ingredients

Name of substance	CAS No	EC No	Wt%
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	276-957-5	25 – < 50
CI 77891	13463-67-7	236-675-5	25 – < 50
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	282-810-6	10 – < 25
DIPENTAERYTHRITYL PENTAACRYLATE	1384855-91-7	262-270-8 800-838-4	10 – < 25
PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5	500-066-5	10 – < 25
ALIPHATIC URETHANE ACRYLATE	n.a.	n.a.	5 – < 10
ETHYL ACETATE	141-78-6	205-500-4	1 – < 5
SILICA DIMETHYL SILYLATE	68611-44-9	271-893-4	1 – < 5
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	203-652-6	1 – < 5
BENZOYL ISOPROPANOL	7473-98-5	231-272-0	1 – < 5
BIS-TRIMETHYLBENZOYL PHENYLPHOSPHINE OXIDE	162881-26-7	423-340-5	0,1 – < 1
BHT	128-37-0	204-881-4	0,1 – < 1
HYDROXYPROPYL METHACRYLATE	27813-02-1	248-666-3	0,1 – < 1
TRIPROPYLENE GLYCOL DIACRYLATE	42978-66-5	256-032-2	0,1 – < 1
BIS(T-BUTYL BENZOXAZOLYL) THIOPHENE	7128-64-5		0,1 – < 1
CI 60725 (D&C Violet No. 2)	81-48-1	201-353-5	0 – < 0,1
P-HYDROXYANISOLE	150-76-5	205-769-8	0 – < 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 (water hazard class) 2 obviously hazardous to water

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

Storage class (LGK) 10 (combustible liquids)

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.2	- signal word: danger	- signal word: warning	yes
2.2		- pictograms: change in the listing (table)	yes
2.2		- hazard statements: change in the listing (table)	yes
2.2		- precautionary statements: change in the listing (table)	yes
2.2	- hazardous ingredients for labelling: DIPENTAERYTHRITYL PENTAACRYLATE, ALIPHATIC URETHANE ACRYLATE, PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE, BIS-TRIMETHYLBENZOYL PHENYLPHOSPHINE OXIDE, TRIETHYLENE GLYCOL DIMETHACRYLATE, ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE, TRIPROPYLENE GLYCOL DIACRYLATE, TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE, HYDROXYPROPYL METHACRYLATE	- hazardous ingredients for labelling: DIPENTAERYTHRITYL PENTAACRYLATE, DIHEMA TRIMETHYLHEXYL DICARBAMATE, ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE, PEG-6 TRIMETHYLOLPROPANE TRIACRYLATE, TRIETHYLENE GLYCOL DIMETHACRYLATE, BIS-TRIMETHYLBENZOYL PHENYLPHOSPHINE OXIDE, HYDROXYPROPYL METHACRYLATE, TRIPROPYLENE GLYCOL DIACRYLATE	yes
2.3		Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Remarks: For full text of abbreviations: see SECTION 16	yes
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	Conditions for safe storage, including any incompatibilities: Protect against: UV-radiation/sunlight, Heat, Cold, Humidity, Keep only in original container, Storage temperature: 10-25°C	yes
7.2		- packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Biological limit values: change in the listing (table)	yes
8.1		Relevant DNELs of components: change in the listing (table)	yes
8.1		Relevant PNECs of components: change in the listing (table)	yes
9.2	Solvent content: 3,845 %	Liquid content: 3,844 %	yes
10.1		If heated: Exothermic polymerisation	yes
10.1		If exposed to light: Exothermic polymerisation.	yes
10.4	Conditions to avoid: There are no specific conditions known which have to be avoided.	Conditions to avoid: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from heat. UV-radiation/sunlight.	yes
10.5	Incompatible materials: Oxidisers	Incompatible materials: Reducing agents, There is no additional information.	yes
11.1	Acute toxicity: May be harmful if swallowed. May be harmful in contact with skin.	Acute toxicity: May be harmful in contact with skin.	yes
11.1		- acute toxicity estimate (ATE): change in the listing (table)	yes
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)	yes
11.1	Serious eye damage/eye irritation: Causes serious eye damage.	Serious eye damage/eye irritation: Causes serious eye irritation.	yes
12.1	Toxicity: Acc. to 1272/2008/EC: Toxic 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 2, obviously hazardous to water (Germany)	Toxicity: Acc. to 1272/2008/EC: Very toxic 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 2, obviously hazardous to water (Germany)	yes
12.1		Aquatic toxicity (acute) of components: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components: change in the listing (table)	yes
12.2		Degradability of components: change in the listing (table)	yes
12.3		Bioaccumulative potential of components: change in the listing (table)	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.	yes
12.6	Endocrine disrupting properties:	Endocrine disrupting properties:	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
	Information on this property is not available.	Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	
13.1	Waste treatment of containers/packagings: Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.	Waste treatment of containers/packagings: It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.	yes
14.1	UN number: not subject to transport regulations	UN number	yes
14.1		ADR/RID/ADN: UN 3082	yes
14.1		IMDG-Code: UN 3082	yes
14.1		ICAO-TI: UN 3082	yes
14.2	UN proper shipping name: not relevant	UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. DI-HEMA TRIMETHYLHEXYL DI-CARBAMATE ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	yes
14.2		ADR/RID/ADN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	yes
14.2		IMDG-Code: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	yes
14.2		ICAO-TI: Environmentally hazardous substance, liquid, n.o.s.	yes
14.3	Transport hazard class(es): none	Transport hazard class(es)	yes
14.3		ADR/RID/ADN: 9	yes
14.3		IMDG-Code: 9	yes
14.3		ICAO-TI: 9	yes
14.4	Packing group: not assigned	Packing group	yes
14.4		ADR/RID/ADN: III	yes
14.4		IMDG-Code: III	yes
14.4		ICAO-TI: III	yes
14.5	Environmental hazards: non-environmentally hazardous acc. to the dangerous goods regulations	Environmental hazards: hazardous to the aquatic environment	yes
14.7	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information:	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relev-ant
	Not subject to ADR, RID and ADN.		
14.7		Classification code: M6	yes
14.7		Danger label(s): 9, fish and tree	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Environmental hazards: yes (hazardous to the aquatic environment)	yes
14.7		Special provisions (SP): 274, 335, 375, 601, 650	yes
14.7		Excepted quantities (EQ): E1	yes
14.7		Limited quantities (LQ): 5 L	yes
14.7		Transport category (TC): 3	yes
14.7		Tunnel restriction code (TRC): -	yes
14.7		Hazard identification No: 90	yes
14.7	International Maritime Dangerous Goods Code (IMDG) - additional information: Not subject to IMDG.	International Maritime Dangerous Goods Code (IMDG) - additional information	yes
14.7		Marine pollutant: yes (hazardous to the aquatic environment) (DI-HEMA TRIMETHYLHEXYL DICARBAMATE)	yes
14.7		Danger label(s): 9, fish and tree	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Special provisions (SP): 274, 335, 375, 969	yes
14.7		Excepted quantities (EQ): E1	yes
14.7		Limited quantities (LQ): 5 L	yes
14.7		EmS: F-A, S-F	yes
14.7		Stowage category: A	yes
14.7	International Civil Aviation Organization (ICAO-IATA/DGR) - additional information: Not subject to ICAO-IATA.	International Civil Aviation Organization (ICAO-IATA/DGR) - additional information	yes
14.7		Environmental hazards: yes (hazardous to the aquatic environment)	yes
14.7		Danger label(s): 9, fish and tree	yes
14.7		Danger label(s):	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
		change in the listing (table)	
14.7		Special provisions (SP): A97, A158, A197, A215	yes
14.7		Excepted quantities (EQ): E1	yes
14.7		Limited quantities (LQ): 30 kg	yes
15.1		List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: not relevant	yes
15.1	VOC content: 49,87 %	VOC content: 49,86 %	yes
15.1	Solvent content: 3,845 %, ethyl acetate	Solvent content: 3,844 %, ethyl acetate	yes
15.1		International Nomenclature of Cosmetic Ingredients: change in the listing (table)	yes
15.1	National inventories		yes
15.1		National inventories: change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
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)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
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
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

Abbr.	Descriptions of used abbreviations
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)
ED	Endocrine disruptor
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
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
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
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
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)
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
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

Abbr.	Descriptions of used abbreviations
	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
SVHC	Substance of Very High Concern
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).

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

Code	Text
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Code	Text
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Disclaimer

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