Safety Data Sheet

HIGH GLOSS clear

Version number: GHS 2.0
Replaces version of: 27.09.2023 (GHS 1)

Revision: 05.03.2024

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

1.1 Product identifier

Trade name	**HIGH GLOSS clear**
Registration number (REACH)	not relevant (mixture)
Alternative number(s)	1003

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
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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	Category	Hazard class and category	Hazard statement
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
4.1A	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 danger

- pictograms

GHS05, GHS07, GHS09 

- hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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 protective gloves.
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P501	Dispose of contents/container to industrial combustion plant.

- hazardous ingredients for labelling: DI-HEMA TRIMETHYLHEXYL DICARBAMATE, ALIPHATIC URETHANE ACRYLATE, HYDROXYPROPYL METHACRYLATE, ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE

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
ALIPHATIC URETHANE ACRYLATE	EC No 934-754-5	25 – < 50	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412	
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	
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	

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
ETHYL ACETATE	CAS No 141-78-6 EC No 205-500-4	5 – < 10	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	
ETHYL TRIMETHYLBEN-ZOYL PHENYLPHOSPHIN-ATE	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	
AMYL ACETATE	CAS No 123-92-2 EC No 204-662-3	1 – < 5	Flam. Liq. 3 / H226 Aquatic Acute 3 / H402	
CI 60725 (D&C Violet No. 2)	CAS No 81-48-1 EC No 201-353-5	< 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	< 0,1	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: 5-30 °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	isopentyl acetate	123-92-2	AGW	50	270	50	270				TRGS 900
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
EU	isopentyl acetate	123-92-2	IOELV	50	270	100	540				2000/39/EC
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
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)
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

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
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/m³	human, inhalatory	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 bw/day	human, dermal	worker (industry)	chronic - systemic 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
AMYL ACETATE	123-92-2	DNEL	2,95 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
AMYL ACETATE	123-92-2	DNEL	20,8 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
P-HYDROXYANISOLE	150-76-5	DNEL	3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
P-HYDROXYANISOLE	150-76-5	DNEL	10 mg/m³	human, inhalatory	worker (industry)	acute - 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)

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	0,001 mg/l	aquatic organisms	marine water	short-term (single instance)
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	PNEC	3,61 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single 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)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,904 mg/l	aquatic organisms	freshwater	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,904 mg/l	aquatic organisms	marine water	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	6,28 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	6,28 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,727 mg/kg	terrestrial organisms	soil	short-term (single instance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	PNEC	0,972 mg/l	aquatic organisms	water	intermittent release
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)

Relevant PNECs of components

Name of substance	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)
AMYL ACETATE	123-92-2	PNEC	0,022 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
AMYL ACETATE	123-92-2	PNEC	0,0022 mg/l	aquatic organ-isms	marine water	short-term (single instance)
AMYL ACETATE	123-92-2	PNEC	100 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
AMYL ACETATE	123-92-2	PNEC	0,22 mg/l	aquatic organ-isms	water	intermittent re-lease
P-HYDROXYAN-ISOLE	150-76-5	PNEC	0,014 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
P-HYDROXYAN-ISOLE	150-76-5	PNEC	0,001 mg/l	aquatic organ-isms	marine water	short-term (single instance)
P-HYDROXYAN-ISOLE	150-76-5	PNEC	10 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
P-HYDROXYAN-ISOLE	150-76-5	PNEC	0,125 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
P-HYDROXYAN-ISOLE	150-76-5	PNEC	0,013 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
P-HYDROXYAN-ISOLE	150-76-5	PNEC	0,017 mg/kg	terrestrial organ-isms	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
Kinematic 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	1,085 $^{g}/_{cm^3}$ at 20 °C
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

Flammable liquids

- sustained combustibility	no (no sustained combustion was observed)

Other safety characteristics

Liquid content	8,031 %

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.

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

Name of substance	CAS No	Exposure route	ATE
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	dermal	>2.000 $^{mg}/_{kg}$
HYDROXYPROPYL METHACRYLATE	27813-02-1	oral	2.000 $^{mg}/_{kg}$
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	dermal	≥2.000 $^{mg}/_{kg}$
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.

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 1, slightly 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
HYDROXYPROPYL METHACRYLATE	27813-02-1	LC50	493 $^{mg}/_{l}$	fish	48 h
HYDROXYPROPYL METHACRYLATE	27813-02-1	EC50	>143 $^{mg}/_{l}$	aquatic invertebrates	48 h
HYDROXYPROPYL METHACRYLATE	27813-02-1	ErC50	>97,2 $^{mg}/_{l}$	algae	72 h
ETHYL ACETATE	141-78-6	LC50	230 $^{mg}/_{l}$	fish	96 h
ETHYL ACETATE	141-78-6	EC50	220 $^{mg}/_{l}$	fish	96 h
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHINATE	84434-11-7	LC50	1,89 $^{mg}/_{l}$	fish	96 h
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHINATE	84434-11-7	EC50	2,26 $^{mg}/_{l}$	aquatic invertebrates	48 h
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHINATE	84434-11-7	ErC50	1,01 $^{mg}/_{l}$	algae	72 h
AMYL ACETATE	123-92-2	LC50	11,1 $^{mg}/_{l}$	fish	96 h
AMYL ACETATE	123-92-2	EC50	47,5 $^{mg}/_{l}$	aquatic invertebrates	24 h
AMYL ACETATE	123-92-2	ErC50	>466 $^{mg}/_{l}$	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	LC50	28,5 $^{mg}/_{l}$	fish	96 h
P-HYDROXYANISOLE	150-76-5	EC50	3 $^{mg}/_{l}$	aquatic invertebrates	48 h
P-HYDROXYANISOLE	150-76-5	ErC50	54,7 $^{mg}/_{l}$	algae	72 h

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ETHYL ACETATE	141-78-6	EC50	2.306 $^{mg}/_{l}$	aquatic invertebrates	24 h
ETHYL TRIMETHYL-BENZOYL PHENYLPHOSPHINATE	84434-11-7	EC50	>1.000 $^{mg}/_{l}$	microorganisms	180 min
AMYL ACETATE	123-92-2	EC50	205 $^{mg}/_{l}$	aquatic invertebrates	24 h
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

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 ACETATE	141-78-6	oxygen depletion	62 %	5 d		ECHA
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	oxygen depletion	<10 %	28 d		ECHA
AMYL ACETATE	123-92-2	DOC removal	57,1 %	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)	
HYDROXYPROPYL METHACRYLATE	27813-02-1		0,97 (pH value: 2, 20 °C)	
ETHYL ACETATE	141-78-6	30	0,68 (pH value: 7, 25 °C)	
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7		2,91 (pH value: 4,4, 25 °C)	
AMYL ACETATE	123-92-2	28,1	2,7 (35 °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

According to the results of its assessment, this substance is not a PBT or a vPvB. 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
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, 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	40,96 %
Solvent content	8,031 %, ethyl acetate, isopentyl acetate

International Nomenclature of Cosmetic Ingredients

Name of substance	CAS No	EC No	Wt%
ALIPHATIC URETHANE ACRYLATE		934-754-5	25 – < 50
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	276-957-5	25 – < 50
HYDROXYPROPYL METHACRYLATE	27813-02-1	248-666-3	10 – < 25
ETHYL ACETATE	141-78-6	205-500-4	5 – < 10
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	282-810-6	1 – < 5
AMYL ACETATE	123-92-2	204-662-3	1 – < 5
CI 60725 (D&C Violet No. 2)	81-48-1	201-353-5	< 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 (water hazard class) 1 slightly hazardous to water

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

Storage class (LGK) 10 (combustible liquids)

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

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.	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 (EDC) in a concentration of ≥ 0,1%.	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
9.2	Liquid content: 8,053 %	Liquid content: 8,031 %	yes
12.5	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.	yes
12.6	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
15.1		List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: not relevant	yes
15.1	VOC content: 41,07 %	VOC content: 40,96 %	yes
15.1	Solvent content: 8,053 %, ethyl acetate, isopentyl acetate	Solvent content: 8,031 %, ethyl acetate, isopentyl acetate	yes
15.1	Remarks to labelling according to cosmetic regulation 1223/2009/EU: For professional users only. Please read instructions carefully. Avoid skin contact. Product can cause an allergic reaction.	Remarks to labelling according to cosmetic regulation 1223/2009/EU: For professional users only. Please read instructions carefully. Avoid skin contact.	yes
16		Abbreviations and acronyms: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
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)
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
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

Abbr.	Descriptions of used abbreviations
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)
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
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.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
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.