

Safety Data Sheet
In accordance with regulations (EG) No. 1907/2006 and 1272/2008

Product : printROCK



Issue date : 14.08.2024
Revision No. : 2.0

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

1.1 Product identifier

Mixture: UV Resin

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

Relevant identified uses

Resin for 3D printing of all kinds of dental models with DLP/LCD- and DUP/LCD-printers

Uses advised against

Use of unpolymerized liquid monomer comes into contact with skin or fingernails

1.3 Details of the safety data sheet

Supplier

KLasse4 Dental GmbH
Bismarckstraße 21
86159 Augsburg
Germany

Telephone / E-Mail

(+49) 821 608914-0 (only during opening hours) / E-Mail: info@klasse4.de

1.4 Emergency telephone number

+49 30 192 40 (Poisons Information Centre Berlin)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Regulation (EG) No. 1272/2008 [CLP]

Skin Irrit. 2: H315
Eye Irrit. 2: H319
Skin Sens. 1: H317
Resp. Irrit. STOT SE 3: H335
Aquatic Chronic 2: H411
Full text of H- and EUH-statements: see section 16

2.2 Label elements

Labelling according to Regulation (EG) Nr. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word: Warning

Contains

2-Oxepanone, homopolymer, 2-[(1-oxo-2propen-1yl)oxy]ethyl ester,
Phenyl-bis-(2,4,6-trimethylbenzoyl)phosphinoxid

Hazard statements (CLP)

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H315	Causes skin irritation
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection, face protection
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents and container to an approved waste disposal plant.
child-proof fastening:	Not applicable
palpable warning:	Not applicable

2.3 Other hazards

Results of PBT and vPvB assessment: Not applicable.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition / information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Composition / information on ingredients

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272-2008 [CLP]
2-Oxepanone, homopolymer, 2-[81-oxo- (CAS-Nr.) 110489-05-9 2-propen-1-yl)oxy]ethyl ester	(EG-Nr.) 600-970-0	30-50%	Eye irrit. 2, H319 Skin sens. 1, H317 STOT SE 3, H335
Pentaerythritol, ethoxylated, esters with acrylid acid (CAS-Nr.) 51728-26-8 (EG-Nr.) 500-111-9		10-25%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411

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Poly(oxy-1,2-ethanediyl), .alpha., .alpha.'-[81-methylethylidene)di-4,1-phenylene]bis[.omega.-[(1-oxo-2-propen-1-yl)oxy]-	(CAS-Nr.) 64401-02-1 (EG-Nr.) 613-584-2	20-25% Aquatic Chronic 2, H411
Phenyl-bis-(2,4,6-trimethylbenzoyl)phosphinoxid	(CAS-Nr.) 162881-26-7 (EG-Nr.) 423-340-5 (Index-Nr.) 015-189-00-5	2-5% Skin Sens. 1A, H317 Aquatic Chronic 4, H 413

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

Pay attention to self-protection! Concerning personal protective equipment to use, see section 8.
In case of health problems: consult a doctor. Show this safety data sheet to the consulted doctor.

Additional advice:

First aider: Pay attention to self-protection! Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms always consult a doctor. Show this safety data sheet to the doctor in attendance.

Inhalation:

Remove casualty to fresh air and keep warm and at rest. Give oxygen or artificial respiration if necessary.
In case of doubt or persistent symptoms, always consult a doctor.

Skin contact:

Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, always consult a doctor.

Eyes contact:

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

Ingestion:

Rinse mouth thoroughly with water. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	May cause respiratory irritation. The following symptoms may occur: Dizziness. Drowsiness. Cough. Irritation of the nasal mucous membranes.
Skin contact	May cause an allergic skin reaction. Causes skin irritation. The following symptoms may occur: Redness, pain.
Eyes contact	Causes serious eye irritation. The following symptoms may occur: Redness, pain.
Ingestion	May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3 Indication of any immediate medical attention and special treatment needed

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Treat symptomatically. In case of doubt, always consult a doctor.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

carbon dioxide (CO₂), powder, alcohol-resistant foam, water spray

Unsuitable extinguishing media

strong water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards	Not combustable. Heat will cause a rise in pressure with a risk of bursting.
Hazardous decomposition products in case of fire	carbon oxides (CO, CO ₂)

5.3 Advice for firefighters

Firefighting instructions	Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	Do not allow run-off from fire-fighting to enter drains or water courses. Disposal of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

6.1.2 For emergency responders

Ensure procedures and training for emergency decontamination and disposal. Concerning personal protective equipment to use, see section 8.

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6.2 Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
Recover large spills by pumping (use an explosion proof or hand pump). Place in suitable container for disposal in accordance with the waste regulations (see section 13). This material and its container must be disposed in a safe way, and as per local legislation.

6.4 Reference to other sections

Concerning personal protective equipment, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling

Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Take any precaution to avoid mixing with incompatible materials, refer to section 10 on incompatible materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures

Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before use.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.
Heat and ignition sources	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Special rules on packaging	Tactile warning. Containers which are opened should be properly resealed

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Packaging materials and kept upright to prevent leakage.
Keep only in the original container.

7.3 Specific end use(s)

3D printer resin.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Recommended monitoring procedures: Personal air monitoring. Room air monitoring.

8.2 Exposure controls

Engineering measure(s)

Organisational measures to prevent / limit releases, dispersion and exposure. See section 7 for information on safe handling. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharges. Ensure equipment is adequately earthed.

Personal protective equipment

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Eye-/face protection

Use suitable eye protection (EN166). Safety glasses.

Body protection

Use suitable protective clothing.

Hand protection

Wear chemically resistant gloves (tested to EN374). Suitable material: not determined. Thickness: not determined. Breakthrough time: not determined. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). Full-face mask (DIN EN 136). Filter type: ABEK (EN14387). The filter class must be suitable for the maximum contaminant concentration (gas / vapour / aerosol / particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used (EN 137).

Thermal hazard protection

Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls

Avoid release to the environment. Comply with applicable Community environmental protection legislation.

Consumer exposure controls

Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

Parameter	
Physical state, appearance	Liquid
Colour	White, ivory, black or grey
Odour	odourless
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate = 1)	No data available
Melting / freezing point	No data available
Initial boiling point and boiling range	238°C
Flash point	No data available
Auto-ignition temperature	252°C
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable, liquid
Vapour pressure	No data available
Relative density	No data available
Solubility	Insoluble in water. Soluble in ethanol.
Partition coefficient n-octanol/water	No data available
Kinematic viscosity	102 cPs (40°C)
Dynamic viscosity	No data available
Explosive properties	Not applicable. Keine Prüfung erforderlich da in dem Molekül keine chemischen Gruppen vorhanden sind, die auf mögliche explosive Eigenschaften schließen lassen.
Brandfördernde Eigenschaften.	Nicht anwendbar. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Explosive limits	No data available
Particle size	Not applicable
Particle size distribution	Not applicable
Particle shape	Not applicable
Particle aspect ratio	Not applicable
Particle aggregation state	Not applicable
Particle agglomeration state	Not applicable
Particle specific surface area	Not applicable
Particle dustiness	Not applicable

9.2 Other informations

9.2.1 Information with regard to physical hazard classes: no additional information available.

9.2.2 Other safety characteristics: no additional information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity

Combustible. See to other sections: 10.4 & 10.5

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignitions sources. No smoking. See sections 7 for information on safe handling.

10.5 Incompatible materials

Strong oxidizing agents. See section 7 for information on safe handling.

10.6 Hazardous decomposition products

Reference to other sections: 5.2.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified (Based on available data, the classification criteria are not met)

Pentaerythritol, ethoxylated, esters with acrylic acid (51728-26-8)

LD50/dermal/Ratte > 2000 mg/kg

Phenyl-bis-(2,4,6-trimethylbenzoyl)phosphinoxid (162881-26-7)

LD50/oral/Ratte > 2000 mg/kg

LD50/dermal/Ratte > 2000 mg/kg

Skin corrosion / irritation

Causes skin irritation. pH: no data available

Serious eye damage / irritation

Causes serious eye irritation. pH: no data available

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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Germ cell mutagenicity

Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity

Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity

Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard

Not classified (Based on available data, the classification criteria are not met)

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Kinematic viscosity: 102 mm²/s (40°C)

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

11.2.2 Other information

Symptoms related to the physical, chemical and toxicological characteristics, for further information see section 4.

SECTION 12: Ecological information

12.1 Toxicity

Environmental properties	Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Toxic to aquatic life with long lasting effects.
Pentaerythritol, ethoxylated, esters with acrylic acid (51728-26-8)	
LC50 – Fish [1]	1,76 mg/l (Exposure time: 96 h – Species: Danio rerio [semi-static])
Phenyl-bis-(2,4,6-trimethylbenzoyl)phosphinoxid (162881-26-7)	
LC50 – Fish [1]	> 90 µg/l (Exposure time: 96 h – Species: Danio rerio [semi static])

12.2 Persistence and degradability

No additional information available.

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12.3 Bioaccumulative potential

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Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No additional information available.
Poly(oxy-1,2-ethanediyl), .alpha., .alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[1-oxo-2-propen-1-yl]oxy]- (64401-02-1)	
Partition coefficient n-octanol/water	2,45–4,16 (at pH 6.97)
Phenyl-bis-(2,4,6-trimethylbenzoyl)phosphinoxid (162881-26-7)	
Partition coefficient n-octanol/water	5,8 (at 22°C (at pH 8.3))

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7 Other adverse effects

No data available.

ABSCHNITT 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal recommendations

Avoid release to the environment. Dispose of empty containers and wastes safely. See section 7 on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product: Do not pierce or burn, even after use. Never use pressure to empty container.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC)

This material and its container must be disposed of as hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA /ADN

ADR	IMDG	IATA	ADN	RID
14.1 UN-Number				
3082	3082	3082	3082	3082

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(oxy-1,2-ethanediyl), .alpha., .a ethanediyl), .alpha., .a Ipha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega phenylene]bis[.omega .-[(1-oxo-2-propen-1-yl)oxy]- ; Pentaerythritol, ethoxylated, esters with acrylic acid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(oxy-1,2-ethanediyl), .alpha., .a Ipha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega phenylene]bis[.omega .-[(1-oxo-2-propen-1-yl)oxy]- ; Pentaerythritol, ethoxylated, esters with acrylic acid)	Environmentally hazardous substance, liquid, n.o.s. (Poly(oxy-1,2-ethanediyl), .alpha., .a Ipha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega phenylene]bis[.omega .-[(1-oxo-2-propen-1-yl)oxy]- ; Pentaerythritol, ethoxylated, esters with acrylic acid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(oxy-1,2-ethanediyl), .alpha., .a Ipha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega phenylene]bis[.omega .-[(1-oxo-2-propen-1-yl)oxy]- ; Pentaerythritol, ethoxylated, esters with acrylic acid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(oxy-1,2-ethanediyl), .alpha., .a Ipha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega phenylene]bis[.omega .-[(1-oxo-2-propen-1-yl)oxy]- ; Pentaerythritol, ethoxylated, esters with acrylic acid)
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Transport document description

UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(oxy-1,2-ethanediyl), .alpha., .a ethanediyl), .alpha., .a Ipha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega phenylene]bis[.omega .-[(1-oxo-2-propen-1-yl)oxy]- ; Pentaerythritol, ethoxylated, esters with acrylic acid), 9, III, (-)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(oxy-1,2-ethanediyl), .alpha., .a Ipha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega phenylene]bis[.omega .-[(1-oxo-2-propen-1-yl)oxy]- ; Pentaerythritol, ethoxylated, esters with acrylic acid), 9, III, MARINE POLLUTANT	Environmentally hazardous substance, liquid, n.o.s. (Poly(oxy-1,2-ethanediyl), .alpha., .a Ipha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega phenylene]bis[.omega .-[(1-oxo-2-propen-1-yl)oxy]- ; Pentaerythritol, ethoxylated, esters with acrylic acid), 9, III	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(oxy-1,2-ethanediyl), .alpha., .a Ipha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega phenylene]bis[.omega .-[(1-oxo-2-propen-1-yl)oxy]- ; Pentaerythritol, ethoxylated, esters with acrylic acid), 9, III	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(oxy-1,2-ethanediyl), .alpha., .a Ipha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega phenylene]bis[.omega .-[(1-oxo-2-propen-1-yl)oxy]- ; Pentaerythritol, ethoxylated, esters with acrylic acid), 9, III

14.3 Transport hazard class(es)



14.4 Packing group

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III

III

III

III

III

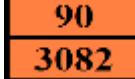
14.5 Environmental hazards

Dangerous for the environment: Yes				
	Marine pollutant: Yes			

14.6 Special precautions for user

Special precautions for user No data available

- Overland transport

Classification Code (ADR)	M6
Special provisions	274, 335, 375, 601
Begrenzte Limited quantities (ADR)	5L
Excepted quantities (ADR)	E1
Packing instructions (ADR)	P001, IBC03, LP01, R001
Special packing provisions (ADR)	PP1
Mixed packing provisions (ADR)	MP19
Portable tank and bulk container instructions (ADR)	TP1, TP29
Tank code (ADR)	LGBV
Vehicle for tank carriage	AT
Transport category (ADR)	3
Special provisions for carriage -Packages (ADR)	V12
Special provisions for carriage -Loading, unloading and handling (ADR)	CV13
Hazard identification number (Kernler No.)	90
Orange plates	

Tunnel restriction code -

EAC-Code •3Z

- Transport by sea

Special provisions (IMDG)	274, 335, 969
Limited quantities (IMDG)	5L
Excepted quantities (IMDG)	E1
Packing instructions (IMDG)	LP01, P001
Special packing provisions (IMDG)	PP1
IBC packing instructions (IMDG)	IBC03
Tank instructions (IMDG)	T4
Tanks special provisions (IMDG)	TP1, TP29
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-F
Stowage category (IMDG)	A

- Air transport

PCA Excepted quantities (IATA)	E1
PCA Limited quantities (IATA)	Y964
PCA limited quantity max net quantity (IATA)	30kgG
PCA packing instructions (IATA)	964
PCA man et quantity (IATA)	450L
CAO packing instructions (IATA)	964

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CAO max net quantity (IATA)	450L
Special provisions (IATA)	A97, A158, A197, A215
ERG Code (IATA)	9L
- Inland waterway transport	
Classification code (ADN)	M6
Special provisions (ADN)	274, 335, 375, 601
Limited quantities (ADN)	5L
Excepted quantities (ADN)	E1
Carriage permitted (ADN)	T
Equipment required (ADN)	PP
Number of blue cones/lights (ADN)	0
- Rail transport	
Classification code (RID)	M6
Specia Provisions (RID)	274, 335, 375, 601
Limited quantities (RID)	5L
Excepted quantities (RID)	E1
Packing instructions (RID)	P001, IBC03, LP01, R001
Special packing provisions (RID)	PP1
Mixed packing provisions (RID)	MP19
Portable tank and bulk container instructions (RID)	T4
Portable tank and bulk container special provisions	TP1, TP29
Tank codes for RID tanks (RID)	LGBV
Transport categor (RID)	3
Special provisions for carriage -Packages (RID)	W12
Special provisions fr carriage -Loading, unloading and handling (RID)	CW13, CW31
Colis express (express parcels) (RID)	CE8
Hazard identification number (RID)	90

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No. 1907-2006:
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No. 1272/2008: Hazard classes 3.1 to 3.6 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

3(c) Substances or mixture fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No. 1272/2008: Hazard class 4.1

printROCK; Pentaerythritol, ethoxylated, esters with acrylic acid; 2-Oxepanone, homopolymer, 2-[(1-oxo-2-propen-1-yl)oxy]ethyl-ester

printROCK; Pentaerythritol, ethoxylated, esters with acrylic acid; Poly(oxy-1,2-ethanediyl), .alpha., .alpha.'-[81-

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(methylethylidene)di-4,1-phenylene]bis[.omega.-[1-oxo-2-propen-1-yl)oxy]-

Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations

France

No ICPE	Installation classées Désignation de la rubrique	Code Régime	Rayon
4511.text	Dangereux pour l'environnement aquatique de catégorie chronique 2.		
4511.1	La quantité totale susceptible d'être présente dans l'installations étant: 1. Supérieure ou égale à 200 t Quantité seuil bas au sens de l'article R. 511-10: 200 t. Quantité seuil haut au sens de l'article R. 511-10: 500 t.	A	1
4511.2	La quantité totale suceptible d'être présente dans l'installation étant: 2. Supérieure ou égale à 100 t mais inférieure à 200 t Quantité seuil bas au sens de l'article R. 511-10: 200 t. Quantité seuil haut au sens de l'article R. 511-10: 500t.	DC	

Germany

Regulatory reference	WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
German storage class (LGK)	LGK 12 – non combustible liquids
Hazardous Incident Ordinance (12. BlmSchV)	Listed in the 12. BlmSchV, Annex I under: 1.3.2
	Quantity threshold for operational area under § 1 para. 1 – Sentence 1: 200000 kg – Sentence 2: 500000 kg

Netherlands

Waterbezwaarlijkheid	A (2) – Verfitig voor in water levende organismen kan in het aquatische milieu op lange termijn schadelijke effecten veroorzaken
SZW-lijst van kankerverwekkende	-
SZW-lijst van mutagene stoffen	-
SZW-lijst van reprotoxische stoffen	-
Borstvoeding	-
SZW-lijst van reprotoxische stoffen	-
Vruchtbaarheid	-
SZW-lijst van reprotoxische stoffen	-
Ontwikkeling	-

Denmark

Recommendations Danish Regulation	Young people below the age of 18 years are not allowed to use the product.
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15.2 Chemical safety assessment

Not applicable.

SECTION 16: Other information

Abbreviations and acronyms

ABM = Allgemeine Beurteilungsmethodik (General Assessment Methodology)

ADN = Accord Européen relatif au transport International des marchandises Dangereuses par voie de Navigaion du Rhin

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ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods Code

LEL = Lower Explosive Limit/Lower Explosion Limit

UEL = Upper Explosive Limit/Upper Explosion Limit

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

BTT = Breakthrough time (maximum wearing time)

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EC50 = Median Effective Concentration

EL50 = Median Effective Level

ErC50 = EC50 in terms of reduction of growth rate

ErL50 = EL50 in terms of reduction of growth rate

EWC = European Waste Catalogue

LC50 = Media lethal concentration

LD50 = Median lethal dose

LL50 = Median lethal level

NA = no applicable

NOEC = No observed effect concentration

NOEL = No observed effect level

NOELR = No observed effect loading rate

NOAEC = No observed adverse effect concentration

NOAEL = No observed adverse effect level

N.O.S. = Not Otherwise Specified

OEL = Occupational Exposure Limits – Short Term Exposure Limits (STEL)

PNEC = Predicted No Effect Concentration

Quantitative structure-activity relationship (QSAR)

STOT = Specific Target Organ Toxicity

TWA = Time weighted average

VOC = Volatile organic compounds

WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the ECHA (European Chemicals Agency). LOLI. Supplier information.
datasheet

Training advise Training staff on good practice. Manipulations are to be done only by qualified and authorized persons.

Other information Classification – Assessment method: CLP Calculation method (Article 9). Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Eye Irrit. 2	Serious eye damage / eye irritation, Category 2
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H413	Toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion / irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

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Skin Sens. 1A

Skin sensitisation, Category 1A

STOT SE 3

Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

According to Regulation (EC) No. 1907/2006 (REACH) with 1st amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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