

Value Resin - Water Washable

Version number: SDS 1.0

Date of compilation: 2024-10-07

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

Trade name	Value Resin - Water Washable
Registration number (REACH)	not relevant (mixture)
Unique formula identifier (UFI)	JDES-P1V0-200W-HX83

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

Relevant identified uses.	3D printing resin
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1.3 Details of the supplier of the safety data sheet

AprintaPro GmbH
 Gutheil Schoder Gasse 17
 1230 Wien
 Austria

Telephone: +43 1 997809410
 e-mail: office@aprintapro.com
 Website: <https://www.aprintapro.com>

e-mail (competent person)	office@aprintapro.com
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1.4 Emergency telephone number

Emergency information service	+43 1 997809410 This number is only available during the following office hours: Mon-Fri 08:00 - 16:00
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SECTION 2: Hazards identification
2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.10	acute toxicity (oral)	4	Acute Tox. 4	H302
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
3.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
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

Delayed or immediate effects can be expected after short or long-term exposure. 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
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- Pictograms

GHS05, GHS07, GHS08, GHS09



- Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

- Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- Supplemental hazard information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Tactile warning of danger

yes

- Hazardous ingredients for labelling

4-(1-oxo-2-propenyl)-morpholine, phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, 2-hydroxyethyl methacrylate, hexamethylene diacrylate, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

2.3 Other hazards

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

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

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
4-(1-oxo-2-propenyl)-morpholine	CAS No 5117-12-4	25 – < 50	Acute Tox. 4 / H302 Eye Dam. 1 / H318 Skin Sens. 1 / H317 STOT RE 2 / H373
Trimethylolpropane (EO)6 Triacrylate	CAS No 28961-43-5	25 – < 50	Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Aquatic Chronic 3 / H412
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-	CAS No 55818-57-0	10 – < 25	Skin Sens. 1 / H317 Aquatic Acute 1 / H400

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Name of substance	Identifier	Wt%	Classification acc. to GHS
epoxypropane, esters with acrylic acid			Aquatic Chronic 2 / H411
2-hydroxyethyl methacrylate	CAS No 868-77-9	10 – < 25	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317
hexamethylene diacrylate	CAS No 13048-33-4	2 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	CAS No 162881-26-7	< 2	Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 4 / H413
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	CAS No 25068-38-6	< 2	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Chronic 2 / H411
Polymer with quaternized ammonium groups	CAS No 1431957-88-8	< 2	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	CAS No 16096-31-4 933999-84-9	< 2	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
4-(1-oxo-2-propenyl)-morpholine	-	-	588 mg/kg	oral
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	-	M-factor (acute) = 10	-	
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	-	M-factor (acute) = 10	-	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 %	-	-	

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.

Following skin contact

Wash with plenty of soap and water.

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.

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

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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 (NO_x), 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.

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.

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7.2 Conditions for safe storage, including any incompatibilities

- 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)
this information is not available

Relevant DNELs of components					
CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
5117-12-4	DNEL	132,2 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
5117-12-4	DNEL	132,2 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
5117-12-4	DNEL	300 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
5117-12-4	DNEL	300 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
55818-57-0	DNEL	1,17 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
55818-57-0	DNEL	33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
868-77-9	DNEL	4,9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
868-77-9	DNEL	1,3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
13048-33-4	DNEL	24,5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
13048-33-4	DNEL	2,77 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
16096-31-4 933999-84-9	DNEL	10,57 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
16096-31-4 933999-84-9	DNEL	10,57 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
16096-31-4 933999-84-9	DNEL	0,44 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
16096-31-4 933999-84-9	DNEL	6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
16096-31-4 933999-84-9	DNEL	22,6 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
16096-31-4 933999-84-9	DNEL	22,6 µg/cm ²	human, dermal	worker (industry)	acute - local effects

Relevant PNECs of components					
CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
5117-12-4	PNEC	0,012 mg/l	aquatic organisms	freshwater	short-term (single instance)
5117-12-4	PNEC	0,009 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
5117-12-4	PNEC	0,001 mg/kg	terrestrial organisms	soil	short-term (single instance)
55818-57-0	PNEC	0,025 mg/l	aquatic organisms	freshwater	short-term (single instance)
55818-57-0	PNEC	0,003 mg/l	aquatic organisms	marine water	short-term (single instance)
55818-57-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
55818-57-0	PNEC	8,96 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
55818-57-0	PNEC	0,896 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
55818-57-0	PNEC	1,78 mg/kg	terrestrial organisms	soil	short-term (single instance)

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Relevant PNECs of components					
CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
868-77-9	PNEC	0,482 mg/l	aquatic organisms	freshwater	short-term (single instance)
868-77-9	PNEC	0,482 mg/l	aquatic organisms	marine water	short-term (single instance)
868-77-9	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
868-77-9	PNEC	3,79 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
868-77-9	PNEC	3,79 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
868-77-9	PNEC	0,476 mg/kg	terrestrial organisms	soil	short-term (single instance)
13048-33-4	PNEC	0,007 mg/l	aquatic organisms	freshwater	short-term (single instance)
13048-33-4	PNEC	0,001 mg/l	aquatic organisms	marine water	short-term (single instance)
13048-33-4	PNEC	2,7 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
13048-33-4	PNEC	0,493 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
13048-33-4	PNEC	0,049 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
13048-33-4	PNEC	0,094 mg/kg	terrestrial organisms	soil	short-term (single instance)
16096-31-4 933999-84-9	PNEC	0,011 mg/l	aquatic organisms	freshwater	short-term (single instance)
16096-31-4 933999-84-9	PNEC	0,001 mg/l	aquatic organisms	marine water	short-term (single instance)
16096-31-4 933999-84-9	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
16096-31-4 933999-84-9	PNEC	0,283 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
16096-31-4 933999-84-9	PNEC	0,028 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
16096-31-4 933999-84-9	PNEC	0,223 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.

- Type of material

NBR: acrylonitrile-butadiene rubber

- Material thickness

≥0,6mm

- Breakthrough times of the glove material

>480 minutes (permeation: level 6)

- 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. Filtering half mask (EN 149). P1 (filters at least 80 % of airborne particles, colour code: White).

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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	acc. to product description
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	98,82 °C at 0,71 mbar
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	235 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
PH (value)	6 – 8 (in aqueous solution: 100 mg/cm ³ , 25 °C)
Kinematic viscosity	not determined
Solubility(ies)	not determined
Partition coefficient	
Partition coefficient n-octanol/water (log value)	this information is not available
Vapour pressure	
Vapour pressure	0,08 hPa at 20 °C
Density and/or relative density	
Density	1,1 g/cm ³ at 25 °C
Relative vapour density	information on this property is not available
Particle characteristics	
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	
Temperature class (EU, acc. to ATEX)	T3 (maximum permissible surface temperature on the equipment: 200°C)

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.

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10.4 Conditions to avoid

UV-radiation/sunlight.

10.5 Incompatible materials

Oxidisers, Reducing agents

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Harmful if swallowed.

- Acute toxicity estimate (ATE)

Oral 1.833 mg/kg

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
4-(1-oxo-2-propenyl)-morpholine	5117-12-4	oral	588 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

May cause damage to organs through prolonged or 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

Very toxic to aquatic life with long lasting effects.

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Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
4-(1-oxo-2-propenyl)-morpholine	5117-12-4	LC50	>220 mg/l	fish	24 h
4-(1-oxo-2-propenyl)-morpholine	5117-12-4	EC50	230 mg/l	aquatic invertebrates	24 h
4-(1-oxo-2-propenyl)-morpholine	5117-12-4	ErC50	>120 mg/l	algae	72 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	LL50	>100 mg/l	fish	96 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	LC50	>0,082 mg/l	fish	96 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	EC50	>16 mg/l	aquatic invertebrates	48 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	EL50	105 mg/l	algae	72 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	ErC50	17 mg/l	algae	72 h
2-hydroxyethyl methacrylate	868-77-9	LC50	>100 mg/l	fish	96 h
2-hydroxyethyl methacrylate	868-77-9	EC50	380 mg/l	aquatic invertebrates	48 h
2-hydroxyethyl methacrylate	868-77-9	ErC50	836 mg/l	algae	72 h
hexamethylene diacrylate	13048-33-4	LC50	0,38 mg/l	fish	96 h
hexamethylene diacrylate	13048-33-4	EC50	8,3 mg/l	aquatic invertebrates	24 h
hexamethylene diacrylate	13048-33-4	ErC50	2,33 mg/l	algae	72 h
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	LC50	>90 µg/l	fish	96 h
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	EC50	>1.175 µg/l	aquatic invertebrates	48 h
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	ErC50	>260 µg/l	algae	72 h
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	16096-31-4 933999-84-9	LC50	30 mg/l	fish	96 h
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	16096-31-4 933999-84-9	EC50	23,1 mg/l	algae	48 h

Aquatic toxicity (chronic) of components				
CAS No	Endpoint	Value	Species	Exposure time
55818-57-0	EC50	>1.000 mg/l	microorganisms	3 h
868-77-9	EC50	90,1 mg/l	aquatic invertebrates	21 d
868-77-9	LC50	>100 mg/l	aquatic invertebrates	21 d
13048-33-4	LC50	0,47 mg/l	aquatic invertebrates	21 d
13048-33-4	EC50	0,15 mg/l	aquatic invertebrates	21 d
162881-26-7	EC50	>100 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Degradability of components					
CAS No	Process	Degradation rate	Time	Method	Source
55818-57-0	oxygen depletion	42 %	28 d		ECHA
13048-33-4	carbon dioxide genera-	60 – 70 %	28 d		ECHA

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Degradability of components					
CAS No	Process	Degradation rate	Time	Method	Source
	tion				
162881-26-7	carbon dioxide generation	1 %	29 d		ECHA
16096-31-4 933999-84-9	oxygen depletion	47 %	28 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components			
CAS No	BCF	Log KOW	BOD5/COD
5117-12-4		-0,46 (21 °C)	
55818-57-0		1,6 – 3,8 (pH value: 6,4, 23 °C)	
868-77-9		0,42 (25 °C)	
13048-33-4		2,81 (25 °C)	
162881-26-7	<5	5,8 (pH value: 8,3, 22 °C)	
16096-31-4 933999-84-9	3,57	0,822 (20 °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 $\geq 0,1\%$.

12.6 Endocrine disrupting properties

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

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 or ID number



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

14.2 UN proper shipping name

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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.
Technical name (hazardous ingredients)	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, hexamethylene diacrylate
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	
Environmentally hazardous substance (aquatic environment)	hazardous to the aquatic environment 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, hexamethylene diacrylate
14.6 Special precautions for user	
Provisions for dangerous goods (ADR) should be complied within the premises.	
14.7 Maritime transport in bulk according to IMO instruments	
The cargo is not intended to be carried in bulk.	
14.8 Information for each of the UN Model Regulations	
Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - 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) (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid)
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

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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)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)			
Name of substance	Name acc. to inventory	CAS No	No
Value Resin - Water Washable	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
4-(1-oxo-2-propenyl)-morpholine	substances in tattoo inks and permanent make-up		75
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	substances in tattoo inks and permanent make-up		75
2-hydroxyethyl methacrylate	substances in tattoo inks and permanent make-up		75
hexamethylene diacrylate	substances in tattoo inks and permanent make-up		75
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	substances in tattoo inks and permanent make-up		75

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

none of the ingredients are listed

Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)	100	200	56)

Notation

56) hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid		a)	
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		a)	

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List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
4,4'-Isopropylodenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane		a)	
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)		a)	

Legend

a) Indicative list of the main pollutants

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	not all ingredients are listed
CA	NDSL	not all ingredients are listed
CN	IECSC	not all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	not all ingredients are listed
VN	NCI	all ingredients are listed
US	TSCA	not all ingredients are listed

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NDSL	Non-domestic Substances List (NDSL)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical safety assessment

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

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SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
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)
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)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
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
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
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
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

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Abbr.	Descriptions of used abbreviations
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STOT RE	Specific target organ toxicity - repeated exposure
SVHC	Substance of Very High Concern
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). 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
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
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.