

Value UV Resin Dental Casting

Version number: SDS 1.0

Date of compilation: 2023-03-19

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

1.1 Product identifier

Trade name Value UV Resin Dental Casting

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

Relevant identified uses. 3D printing resin

1.3 Details of the supplier of the safety data sheet

Prima Printer Nordic AB
Kantyxegatan 25 F
213 76 Malmö
Sweden

e-mail: info@3dprima.com
Website: www.3dprima.com

e-mail (competent person) info@3dprima.com

1.4 Emergency telephone number

Emergency information service +46 40 684 97 90
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
3.4S	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

- Signal word warning

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- Pictograms

GHS07, GHS09

**- Hazard statements**

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
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.
P261 Avoid breathing mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

2.3 Other hazards

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$.**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not relevant (mixture)

3.2 Mixtures

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Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
Esterification products of acrylic acid with reaction products of 2,2-dimethylpropane-1,3-diol and methyloxirane	CAS No 84170-74-1	25 - < 50	Aquatic Chronic 2 / H411
(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	CAS No 66492-51-1	25 - < 50	Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Aquatic Chronic 2 / H411
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	CAS No 55818-57-0	10 - < 25	Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	CAS No 84434-11-7	5 - < 10	Acute Tox. 4 / H312 Skin Sens. 1B / H317 Aquatic Chronic 2 / H411
Polychloro copper phthalocyanine	CAS No 1328-53-6	2 - < 5	Acute Tox. 4 / H332 Aquatic Chronic 2 / H411

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	-	M-factor (acute) = 10	-	
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	-	-	≥2,000 mg/kg	dermal
Polychloro copper phthalocyanine	-	-	>2.046 mg/l/4h	inhalation: dust/mist

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.

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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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

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.

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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**

- 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.

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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 of the mixture					
CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
84170-74-1	DNEL	32.9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
84170-74-1	DNEL	46.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - 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
84434-11-7	DNEL	4.93 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
84434-11-7	DNEL	1.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1328-53-6	DNEL	1.25 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects

Relevant PNECs of components of the mixture					
CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
84170-74-1	PNEC	0.003 mg/l	aquatic organisms	freshwater	short-term (single instance)
84170-74-1	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
84170-74-1	PNEC	0.1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
84170-74-1	PNEC	0.064 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
84170-74-1	PNEC	0.006 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
84170-74-1	PNEC	0.011 mg/kg	terrestrial organisms	soil	short-term (single instance)
66492-51-1	PNEC	0.004 mg/l	aquatic organisms	freshwater	short-term (single instance)

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Relevant PNECs of components of the mixture					
CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
66492-51-1	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
66492-51-1	PNEC	30 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
66492-51-1	PNEC	0.019 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
66492-51-1	PNEC	0.002 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
66492-51-1	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)
84434-11-7	PNEC	1.01 µg/l	aquatic organisms	freshwater	short-term (single instance)
84434-11-7	PNEC	0.101 µg/l	aquatic organisms	marine water	short-term (single instance)
84434-11-7	PNEC	0.24 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
84434-11-7	PNEC	24 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
84434-11-7	PNEC	47.5 µg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

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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

Nitrile

- Material thickness

≥0,35mm

- Breakthrough times of the glove material

>60 minutes (permeation: level 3)

- 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).

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	green
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	>200 °C at 1,013 mbar
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	not determined

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Auto-ignition temperature	>240 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
PH (value)	6.8 – 7.2 (in aqueous solution: 100 % (w/w), 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 0.5 hPa at 70 °C

Density and/or relative density	
Density	1.05 g/cm ³ at 25 °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
Other safety characteristics	there is no additional information

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

UV-radiation/sunlight.

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.

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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 acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	dermal	≥2,000 mg/kg
Polychloro copper phthalocyanine	1328-53-6	inhalation: dust/mist	>2.046 mg/l/4h

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

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.

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SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Esterification products of acrylic acid with reaction products of 2,2-dimethylpropane-1,3-diol and methyloxirane	84170-74-1	LC50	2.7 mg/l	fish	96 h
Esterification products of acrylic acid with reaction products of 2,2-dimethylpropane-1,3-diol and methyloxirane	84170-74-1	EC50	37 mg/l	aquatic invertebrates	48 h
Esterification products of acrylic acid with reaction products of 2,2-dimethylpropane-1,3-diol and methyloxirane	84170-74-1	ErC50	11 mg/l	algae	72 h
(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	66492-51-1	LC50	4 mg/l	fish	96 h
(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	66492-51-1	EC50	20 mg/l	aquatic invertebrates	48 h
(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	66492-51-1	ErC50	34 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

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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	LC50	1.89 mg/l	fish	96 h
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	EC50	2.26 mg/l	aquatic invertebrates	48 h
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	ErC50	1.01 mg/l	algae	72 h
Polychloro copper phthalocyanine	1328-53-6	LC50	>100 mg/l	fish	96 h
Polychloro copper phthalocyanine	1328-53-6	EC50	153.6 mg/l	aquatic invertebrates	48 h
Polychloro copper phthalocyanine	1328-53-6	ErC50	>100 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture				
CAS No	Endpoint	Value	Species	Exposure time
66492-51-1	EC50	>1,000 mg/l	microorganisms	180 min
55818-57-0	EC50	>1,000 mg/l	microorganisms	3 h
84434-11-7	EC50	>1,000 mg/l	microorganisms	180 min
1328-53-6	EC50	>10,000 mg/l	microorganisms	30 min

12.2 Persistence and degradability

Degradability of components of the mixture					
CAS No	Process	Degradation rate	Time	Method	Source
84170-74-1	oxygen depletion	41 %	28 d		ECHA
66492-51-1	DOC removal	28 %	28 d		ECHA
55818-57-0	oxygen depletion	42 %	28 d		ECHA
84434-11-7	oxygen depletion	<10 %	28 d		ECHA
1328-53-6	oxygen depletion	<1 %	28 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

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Bioaccumulative potential of components of the mixture			
CAS No	BCF	Log KOW	BOD5/COD
84170-74-1	$\geq 3.24 - \leq 4.37$	1 (pH value: 6.44)	
66492-51-1		1.9 (pH value: 6, 23 °C)	
55818-57-0		1.6 – 3.8 (pH value: 6.4, 23 °C)	
84434-11-7		2.91 (pH value: 4.4, 25 °C)	
1328-53-6		-0.88 – ≤ -0.4 (23 °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 in a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in 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 it-self.

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.

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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

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)	Esterification products of acrylic acid with reaction products of 2,2-dimethylpropane-1,3-diol and methyl-oxirane, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate

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 Esterification products of acrylic acid with reaction products of 2,2-dimethylpropane-1,3-diol and methyl-oxirane, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate
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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

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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
Emergency Action Code	3Z

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information

Classification code	M6
Danger label(s)	9, fish and tree
	
Environmental hazards	yes (hazardous to water)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Hazard identification No	90


International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	yes (hazardous to the aquatic environment) (Esterification products of acrylic acid with reaction products of 2,2-dimethylpropane-1,3-diol and methyloxirane)
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

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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)

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)	
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate		a)	

Legend

A) Indicative list of the main pollutants

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Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
Value UV Resin Dental Casting	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	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	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
NZIoC	New Zealand Inventory of Chemicals

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Legend

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.

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)
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
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
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)

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Abbr.	Descriptions of used abbreviations
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
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
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

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

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

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

Code	Text
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic 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.