

Safety data sheet

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BASF 3D Printing safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 24.02.2022

Version: 5.0

Date previous version: 07.02.2022

Previous version: 4.0

Date / First version: 06.02.2020

Product: **Ultracur3D® RG 1100**

(ID no. 987296/SDS_GEN_EU/EN)

Date of print 07.03.2022

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

1.1. Product identifier

Ultracur3D® RG 1100

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

Recommended use: resin, Printing inks, Chemical

1.3. Details of the supplier of the safety data sheet

Company:

BASF 3D Printing Solutions GmbH
Speyerer Str. 4
69115 Heidelberg, Germany

Telephone: +49 6221 67417 900

E-mail address: sales@basf-3dps.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

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According to Regulation (EC) No 1272/2008 [CLP]

Skin Corr./Irrit. 2	H315 Causes skin irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.
STOT SE 3	H335 May cause respiratory irritation.
STOT RE 2 (oral)	H373 May cause damage to organs through prolonged or repeated oral exposure.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated oral exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P273	Avoid release to the environment.

Precautionary Statements (Response):

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 or physician.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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Precautionary Statements (Disposal):

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P501 Dispose of contents and container to hazardous or special waste collection point.

Labeling of special preparations (GHS):

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 58 %, Inhalation - vapour

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 58 %, Inhalation - mist

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide, 2-Propen-1-one, 1-(4-morpholinyl)-

Hazard determining component(s) for labelling: 2-Propen-1-one, 1-(4-morpholinyl)-, diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide, 4-(1,1-Dimethylethyl)cyclohexyl acrylate, (Octahydro-4,7- methano-1H-indenediyl)bis(methylene) diacrylate

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Blend based on: acrylic resin

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

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Content (W/W): $\geq 1\%$ - $< 3\%$ Skin Sens. 1B
 CAS Number: 75980-60-8 Repr. 2 (fertility)
 EC-Number: 278-355-8 Repr. 2 (unborn child)
 Aquatic Chronic 2
 H317, H361fd, H411

4-(1,1-Dimethylethyl)cyclohexyl acrylate

Content (W/W): $\geq 0.3\%$ - $< 3\%$ Skin Corr./Irrit. 2
 CAS Number: 84100-23-2 Eye Dam./Irrit. 2
 EC-Number: 282-104-8 Skin Sens. 1A
 REACH registration number: 01- STOT SE 3 (irr. to respiratory syst.)
 2120735441-62 Aquatic Acute 1
 INDEX-Number: 607-133-00-9 Aquatic Chronic 2
 M-factor acute: 1
 H319, H315, H317, H335, H411, H400

Specific concentration limit:STOT SE 3, irr. to respiratory syst.: $\geq 10\%$

2-Propen-1-one, 1-(4-morpholinyl)-

Content (W/W): $\geq 15\%$ - $< 20\%$ Acute Tox. 4 (oral)
 CAS Number: 5117-12-4 Eye Dam./Irrit. 1
 EC-Number: 418-140-1 Skin Sens. 1
 INDEX-Number: 613-222-00-3 STOT RE 2
 H318, H302, H317, H373

(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate

Content (W/W): $\geq 50\%$ - $< 75\%$ Skin Corr./Irrit. 2
 CAS Number: 42594-17-2 Eye Dam./Irrit. 2
 EC-Number: 255-901-3 Skin Sens. 1B
 INDEX-Number: 607-133-00-9 STOT SE 3 (irr. to respiratory syst.)
 Aquatic Chronic 2
 H319, H315, H317, H335, H411

Specific concentration limit:STOT SE 3, irr. to respiratory syst.: $\geq 10\%$

Polymeric urethane acrylate

Content (W/W): $\geq 15\%$ - $< 20\%$ Skin Corr./Irrit. 2
 CAS Number: 68585-11-5 Eye Dam./Irrit. 2
 H319, H315

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

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SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: No hazard is expected under intended use and appropriate handling.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:

water jet

5.2. Special hazards arising from the substance or mixture

Endangering substances: harmful vapours

Advice: Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

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Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Heated containers should be cooled to prevent polymerization. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

The product in undamaged packing need not be stored separately.

Further information on storage conditions: Protect against heat. Protect from the effects of light. The stabilizer is only effective in the presence of oxygen.

Storage stability:

Storage temperature: -15 - 40 °C

Protect from temperatures below: -15 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

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Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time. If transport time lasts more than 4 days the packed product must be protected against exceeding the indicated temperature.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Under no circumstances should the product come into contact with the skin of pregnant women or be inhaled by them. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin, eyes and clothing. Avoid inhalation. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Wash contaminated clothing before reuse.

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid	
Colour:	clear	
Odour:	acrylic-like	
Odour threshold:	not determined	
pH value:	substance/mixture is non-soluble (in water)	
Melting point:	No data available.	
Boiling point:	> 150 °C (1,013 hPa) Information based on the main component/s. The substance / product decomposes.	(Directive 84/449/EEC, A.2)
Flash point:	> 95 °C	
Evaporation rate:	No data available.	
Flammability:	not highly flammable	
Lower explosion limit:	For liquids not relevant for classification and labelling.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	No data available.	
Vapour pressure:	No data available.	
Density:	1.09 g/cm ³ (20 °C)	
Relative density:	1.09 (20 °C)	
Solubility in water:	not determined	
Partitioning coefficient n-octanol/water (log K _{ow}):	not applicable for mixtures	
Self ignition:	not self-igniting	
Thermal decomposition:	192.77 °C, 377.11 J/g,	
Viscosity, dynamic:	421 mPa.s (30 °C)	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	

9.2. Other information

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Self heating ability: not applicable, the product is a liquid

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effects to metal are not anticipated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated. The product is stabilized for transport.

10.3. Possibility of hazardous reactions

The product can polymerize if the shelf life or storage temperature are greatly exceeded. Heat develops during polymerization. Reacts with peroxides and other radical components.

The product is stabilized against spontaneous polymerization prior to despatch.

10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:

free radical initiators

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Experimental/calculated data:

LD50 rat (oral): 588 mg/kg (OECD Guideline 401)

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The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 58 %, Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 58 %, Inhalation - mist

Irritation

Assessment of irritating effects:

Skin contact causes irritation. May cause severe damage to the eyes.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Assessment of irritating effects:

May cause severe damage to the eyes. EU-classification Not irritating to the skin.

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Assessment of sensitization:

Sensitization after skin contact possible. EU-classification

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Assessment of sensitization:

Caused skin sensitization in animal studies.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: skin sensitizing (OECD Guideline 429)

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

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Assessment of reproduction toxicity:

The results of animal studies suggest a fertility impairing effect.

Developmental toxicity

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Assessment of teratogenicity:

At high doses there are indications of a developmental effect.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated exposure may affect certain organs.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Assessment of repeated dose toxicity:

Repeated exposure may affect certain organs. EU-classification

Aspiration hazard

No data available.

Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Toxicity to fish:

LC50 (48 h) 6.53 mg/l, Oryzias latipes (JIS K 0102-71, semistatic)

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The details of the toxic effect relate to the nominal concentration.

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Aquatic invertebrates:

EC50 (48 h) 3.53 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

The statement of the toxic effect relates to the analytically determined concentration.

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Aquatic plants:

EC50 (72 h) > 2.01 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration.

EC10 (72 h) 1.56 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration.

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Microorganisms/Effect on activated sludge:

EC20 (3 h) > 1,000 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

Limit concentration test only (LIMIT test). The details of the toxic effect relate to the nominal concentration.

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Chronic toxicity to fish:

No data available regarding toxicity to fish.

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Chronic toxicity to aquatic invertebrates:

No data available regarding toxicity to daphnids.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):

Moderately/partially eliminated from water.

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria).

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Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
Assessment biodegradation and elimination (H₂O):
Poorly biodegradable. Not readily biodegradable (by OECD criteria).

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-
Elimination information:
35 % BOD of the ThOD (28 d) (OECD 301D; EEC 92/69, C.4-E) (other)

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
Elimination information:
0 - 10 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic)

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:
 The product has not been tested.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
Assessment bioaccumulation potential:
Does not significantly accumulate in organisms.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
Bioaccumulation potential:

Bioconcentration factor (BCF): 23 - 55 (56 d), Cyprinus carpio (measured)

12.4. Mobility in soil

Assessment transport between environmental compartments:
 Volatility: No data available.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
Assessment transport between environmental compartments:
Volatility: The substance will not evaporate into the atmosphere from the water surface.
Adsorption in soil: Adsorption to solid soil phase is not expected.

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12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.7. Additional information

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains TRICYCLODECANE DIMETHANOL DIACRYLATE)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

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RID

UN number or ID number: UN3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains TRICYCLODECANE DIMETHANOL DIACRYLATE)
Transport hazard class(es): 9, EHS
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

Inland waterway transport

ADN

UN number or ID number: UN3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains TRICYCLODECANE DIMETHANOL DIACRYLATE)
Transport hazard class(es): 9, EHS
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains TRICYCLODECANE DIMETHANOL DIACRYLATE)
Transport hazard class(es): 9, EHS
Packing group: III
Environmental hazards: yes
Marine pollutant: YES
Special precautions for user: None known

Air transport

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Version: 5.0

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Date / First version: 06.02.2020

Product: **Ultracur3D® RG 1100**

(ID no. 987296/SDS_GEN_EU/EN)

Date of print 07.03.2022

IATA/ICAO

UN number or ID number: UN 3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains TRICYCLODECANE DIMETHANOL DIACRYLATE)
Transport hazard class(es): 9, EHS
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

Further information

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

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SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3, 75

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

SECTION 16: Other Information

Any other intended applications should be discussed with the manufacturer.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Skin Corr./Irrit.	Skin corrosion/irritation
Skin Sens.	Skin sensitization
Eye Dam./Irrit.	Serious eye damage/eye irritation
STOT SE	Specific target organ toxicity — single exposure
STOT RE	Specific target organ toxicity — repeated exposure
Aquatic Chronic Repr.	Hazardous to the aquatic environment - chronic
Aquatic Acute	Hazardous to the aquatic environment - acute
Acute Tox.	Acute toxicity
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated oral exposure.
H411	Toxic to aquatic life with long lasting effects.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract

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Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.