

Value DLP Resin

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 DLP Resin

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.

- Supplemental hazard information

- EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

- Hazardous ingredients for labelling

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate, 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 $\geq 0,1\%$.

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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 |
|--|-------------------|-----------|---|
| 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 |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | CAS No 55818-57-0 | 25 – < 50 | Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411 |
| (5-ethyl-1,3-dioxan-5-yl)methyl acrylate | CAS No 66492-51-1 | 10 – < 25 | Skin Irrit. 2 / H315 Skin Sens. 1B / H317 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 |
| Titanium dioxide | CAS No 13463-67-7 | < 2 | Carc. 2 / H351 |

| 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 |

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.

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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

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.

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6.2 **Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 **Methods and material for containment and cleaning up**

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 **Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 **Precautions for safe handling**

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 **Conditions for safe storage, including any incompatibilities**

- 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) | | | | | | | | | | | |
|--|------------------|------------|------------|-----------|-------------|------------|--------------|-----------------|-------------------|----------|-----------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source |
| GB | titanium dioxide | 13463-67-7 | WEL | | 10 | | | | | i | EH40/2005 |
| GB | titanium dioxide | 13463-67-7 | WEL | | 4 | | | | | r | EH40/2005 |

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

i inhalable fraction

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

| 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/m³ | 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/m³ | 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/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 84434-11-7 | DNEL | 1.4 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic 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) |

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| Relevant PNECs of components of the mixture | | | | | |
|---|----------|-----------------|-----------------------|------------------------------|------------------------------|
| CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| 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) |
| 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) |
| 66492-51-1 | PNEC | 0.004 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| 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) |
| 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) |

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| Relevant PNECs of components of the mixture | | | | | |
|---|----------|-----------------|-----------------------|---------------------------|------------------------------|
| CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| 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.

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.

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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 | >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 |
| Auto-ignition temperature | >240 °C |
| Decomposition temperature | not relevant |
| PH (value) | 6.8 – 7.2 (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 | 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 |

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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.

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 |

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.

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Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

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 |
| 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 |

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| Aquatic toxicity (acute) of components of the mixture | | | | | |
|--|------------|----------|-------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| 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 |
| (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 |
| 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 |

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

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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 |
| 55818-57-0 | oxygen depletion | 42 % | 28 d | | ECHA |
| 66492-51-1 | DOC removal | 28 % | 28 d | | ECHA |
| 84434-11-7 | oxygen depletion | <10 % | 28 d | | ECHA |

12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components of the mixture | | | |
|--|---------------|----------------------------------|----------|
| CAS No | BCF | Log KOW | BOD5/COD |
| 84170-74-1 | ≥3.24 – ≤4.37 | 1 (pH value: 6.44) | |
| 55818-57-0 | | 1.6 – 3.8 (pH value: 6.4, 23 °C) | |
| 66492-51-1 | | 1.9 (pH value: 6, 23 °C) | |
| 84434-11-7 | | 2.91 (pH value: 4.4, 25 °C) | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

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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

| | |
|--|---|
| 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, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid |

14.3 Transport hazard class(es)

| | |
|-------------|---|
| ADR/RID/ADN | 9 |
| IMDG-Code | 9 |
| ICAO-TI | 9 |

14.4 Packing group

| | |
|-------------|-----|
| ADR/RID/ADN | III |
| IMDG-Code | III |
| ICAO-TI | III |

14.5 Environmental hazards

| | |
|---|---|
| | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment) | Esterification products of acrylic acid with reaction products of 2,2-dimethylpropane-1,3-diol and methyl-oxirane, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid |

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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

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 |

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| | |
|--------------------------|---------------|
| Special provisions (SP) | 274, 335, 969 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| EmS | F-A, S-F |
| Stowage category | A |

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

| | |
|-----------------------|--|
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Danger label(s) | 9, fish and tree |



| | |
|--------------------------|-----------------------|
| Special provisions (SP) | A97, A158, A197, A215 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 30 kg |

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

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

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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) | |
| Titanium dioxide | | a) | |
| Titanium dioxide | | a) | |
| Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite | | a) | |

Legend

A) Indicative list of the main pollutants

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 DLP Resin | 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 |

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| Country | Inventory | Status |
|---------|-----------|--------------------------------|
| 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 |
| 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 |
| Carc. | Carcinogenicity |

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| Abbr. | Descriptions of used abbreviations |
|-----------|--|
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| 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 |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| 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) |
| 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 |

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| Abbr. | Descriptions of used abbreviations |
|-------------|---|
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitisation |
| STEL | Short-term exposure limit |
| TWA | Time-weighted average |
| vPvB | Very Persistent and very Bioaccumulative |
| WEL | Workplace exposure limit |

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).

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. |
| H351 | Suspected of causing cancer. |
| 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.