

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

CONLOC UV 651

Revision date: 03.05.2023

Product code: 751000100

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

CONLOC UV 651

Product group: Adhesives

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

UV curing adhesive

1.3. Details of the supplier of the safety data sheet

| | | |
|-----------------|--------------------------------------------|--------------------------------|
| Company name: | EGO Dichtstoffwerke GmbH & Co. Betriebs KG | |
| Street: | Kaltenbrunn 27 | |
| Place: | D-82467 Garmisch-Partenkirchen | |
| Telephone: | +49 (0)8821 956 90 | Telefax: +49 (0)8821 956 990 |
| e-mail: | info@ego.de | |
| Contact person: | Laboratory | Telephone: +49 (0)8821 956 960 |
| e-mail: | EGO-Labor@ego.de | |
| Internet: | www.ego.de | |

1.4. Emergency telephone number:

+49 55119240 (24h/7d)
GIZ-Nord, Göttingen
Member of EPECs network

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin Irrit. 2; H315
Eye Dam. 1; H318
Skin Sens. 1; H317
STOT SE 3; H335
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

Hydroxypropylmethacrylate
Dodecylmethacrylate
acrylic acid; prop-2-enoic acid

Signal word: Danger**Pictograms:****Hazard statements**

| | |
|------|----------------------------------------------------|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

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Precautionary statements

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves / protective clothing / eye protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P501 | Dispose of contents/container in accordance with local regulation. |

2.3. Other hazards

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Do not expose skin and above all eyes to direct or reflected UV light during curing.

Should not be released into the environment.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|-----------------------------------------------------------------------------------------------------------------------|--------------|------------------|----------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 7534-94-3 | Isobornylmethacrylate | | | < 40 % |
| | 231-403-1 | | 01-2119886505-27 | |
| | Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Chronic 3; H315 H319 H335 H412 | | | |
| 27813-02-1 | Hydroxypropylmethacrylate | | | < 20 % |
| | 248-666-3 | | 01-2119490226-37 | |
| | Eye Irrit. 2, Skin Sens. 1; H319 H317 | | | |
| 142-90-5 | Dodecylmethacrylate | | | < 20 % |
| | 205-570-6 | | | |
| | Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335 | | | |
| 79-10-7 | acrylic acid; prop-2-enoic acid | | | < 5 % |
| | 201-177-9 | 607-061-00-8 | | |
| | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Aquatic Acute 1; H226 H332 H312 H302 H314 H400 | | | |
| 2549-53-3 | Tetradecyl methacrylate | | | < 5 % |
| | 219-835-9 | | | |
| | Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335 | | | |
| 2495-27-4 | Hexadecylmethacrylat | | | < 5 % |
| | 219-672-3 | | | |
| | Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335 | | | |
| 2530-83-8 | (3-(2,3-Epoxypropoxy)propyl)trimethoxysilane | | | < 3 % |
| | 219-784-2 | | 01-2119513212-58 | |
| | Eye Dam. 1, Aquatic Chronic 3; H318 H412 | | | |
| 79-41-4 | methacrylic acid; 2-methylpropenoic acid | | | < 1 % |
| | 201-204-4 | 607-088-00-5 | | |
| | Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A; H312 H302 H314 | | | |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | | | < 1 % |
| | 201-297-1 | 607-035-00-6 | | |
| | Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335 | | | |

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

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Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 7534-94-3 | 231-403-1 | Isobornylmethacrylate | < 40 % |
| | | dermal: LD50 = >3000 mg/kg; oral: LD50 = 3160 mg/kg | |
| 27813-02-1 | 248-666-3 | Hydroxypropylmethacrylate | < 20 % |
| | | dermal: LD50 = >5000 mg/kg; oral: LD50 = >2000 mg/kg | |
| 79-10-7 | 201-177-9 | acrylic acid; prop-2-enoic acid | < 5 % |
| | | inhalation: LC50 = > 10 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 1000 mg/kg; oral: LD50 = > 300 mg/kg STOT SE 3; H335: >= 1 - 100 | |
| 2530-83-8 | 219-784-2 | (3-(2,3-Epoxypropoxy)propyl)trimethoxysilane | < 3 % |
| | | inhalation: LC50 = > 5,3 mg/l (vapours); dermal: LD50 = 4250 mg/kg; oral: LD50 = 8025 mg/kg | |
| 79-41-4 | 201-204-4 | methacrylic acid; 2-methylpropenoic acid | < 1 % |
| | | dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg STOT SE 3; H335: >= 1 - 100 | |

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

If you feel unwell, seek medical advice (show the label where possible).

After inhalation

Move to fresh air in case of accidental inhalation of vapours. Consult physician if problems persist.

After contact with skin

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult physician if problems persist.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After ingestion

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Consult a physician.

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

Skin: Rash, Redness, Inflammation.

Eyes: May cause irreversible eye damage.

If inhaled: Respiratory irritation, Cough.

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

No information available.

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Dry powder, Foam, Carbon dioxide (CO₂).

Extinguishing materials should be selected according to the surrounding area.

Unsuitable extinguishing media

High volume water jet

5.2. Special hazards arising from the substance or mixture

Fire may cause evolution of: nitrogen oxides (NO_x), Carbon oxides.

Burning produces irritant fumes.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Cool endangered containers with water spray.

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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Ensure adequate ventilation. Do not breathe vapours or spray mist. Avoid contact with skin, eye and clothing.
Remove all sources of ignition.

For non-emergency personnel

Remove from all sources of ignition. Provide adequate ventilation. Wear personal protection equipment.

For emergency responders

Wear personal protection equipment.

6.2. Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not flush into surface water or sanitary sewer system.

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

Cover the sewers.

For cleaning up

Small amounts: Wipe up with absorbent material (e.g. cloth, fleece).
Substantial quantities: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the assimilated material according to the section on waste disposal.

Other information

Provide adequate ventilation.

6.4. Reference to other sections

See also section 7, 8, 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons.

Advice on protection against fire and explosion

Keep away from heat.

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with skin. Avoid contact with eyes. Do not breath vapour.
Wash hands when done working with material; at breaks, lunch, shift changes, etc. Take off immediately all contaminated clothing
When using, do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs.

Further information on handling

When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place. Keep at temperatures between 8 and 21 °C.
Protect against light. Never return unused material to storage receptacle.

Hints on joint storage

No special precautions required.

7.3. Specific end use(s)

Adhesive

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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limit values**

| CAS No | Name of agent | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|---------|---------------------------------|-----|-------------------|---------------------|--------------|--------|
| 79-10-7 | Acrylic acid; Prop-2-enoic acid | 10 | 29 | | TWA (8 h) | |
| | | 20 | 59 | | STEL (1 min) | |

DNEL/DMEL values

| CAS No | Name of agent | Exposure route | Effect | Value |
|--------------------------|----------------------------------------------|----------------|----------|------------------------|
| 27813-02-1 | Hydroxypropylmethacrylate | | | |
| Worker DNEL, long-term | | dermal | systemic | 4,2 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 14,7 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 2,5 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 8,8 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 2,5 mg/kg bw/day |
| 2530-83-8 | (3-(2,3-Epoxypropoxy)propyl)trimethoxysilane | | | |
| Worker DNEL, acute | | dermal | systemic | 21 mg/kg bw/day |
| Worker DNEL, acute | | inhalation | systemic | 147 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 21 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 147 |

PNEC values

| CAS No | Name of agent | Value |
|--------------------------------------------------|----------------------------------------------|------------|
| 27813-02-1 | Hydroxypropylmethacrylate | |
| Freshwater | | 0,904 mg/l |
| Marine water | | 0,904 mg/l |
| Freshwater (intermittent releases) | | 0,972 mg/l |
| Freshwater sediment | | 6,28 mg/kg |
| Marine sediment | | 6,28 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| 2530-83-8 | (3-(2,3-Epoxypropoxy)propyl)trimethoxysilane | |
| Freshwater | | 1 mg/l |
| Marine water | | 0,1 mg/l |
| Freshwater (intermittent releases) | | 1 mg/l |
| Soil | | 0,13 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |

8.2. Exposure controls**Appropriate engineering controls**

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Do not expose skin and above all eyes to direct or reflected UV light during curing.

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Individual protection measures, such as personal protective equipment**Eye/face protection**

Safety glasses with side-shields.

Hand protection

Avoid contact with skin. Protective gloves complying with EN 374.

Protective gloves NBR (Nitrile rubber). Layer thickness =>0,4mm.

Short term Protective index 2; >30 minutes; Long term Protective index 6; >480 minutes;

The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection

Protective suit

Respiratory protection

Ensure adequate ventilation, especially in confined areas.

In case of insufficient ventilation wear suitable respiratory equipment. respirator with A filter

Thermal hazards

Do not heat the product.

Under fire conditions: Flame-resistant clothing

Low temperature resistant gloves: not required

Environmental exposure controls

Do not allow material to contaminate ground water system.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|-----------------------------------------------------------|-----------------------|
| Physical state: | liquid |
| Colour: | light yellow |
| Odour: | characteristic |
| Odour threshold: | not determined |
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | not determined |
| Flammability: | not determined |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Flash point: | > 100 °C |
| Auto-ignition temperature: | not determined |
| Decomposition temperature: | not determined |
| pH-Value: | 6 - 8 |
| Water solubility: | insoluble |
| Vapour pressure: | not determined |
| Density: | 1,1 g/cm ³ |
| Bulk density: | not determined |
| Particle characteristics: | not applicable |

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties

no data available

Other safety characteristics

Evaporation rate: not determined

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Viscosity / dynamic:

not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reacts with the following substances:

Strong oxidizing agents. Reducing agents, Strong bases, Acids.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Exposure to light. Stable under recommended storage conditions.

10.5. Incompatible materials

See section Reactivity

10.6. Hazardous decomposition productsCarbon oxides, Hydrocarbons, nitrogen oxides (NO_x)**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

No data is available on the product itself.



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| CAS No | Chemical name | | | | |
|------------|----------------------------------------------|-------------------|---------|-------------------------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 7534-94-3 | Isobornylmethacrylate | | | | |
| | oral | LD50 3160 mg/kg | rat | | |
| | dermal | LD50 >3000 mg/kg | rabbit | | |
| 27813-02-1 | Hydroxypropylmethacrylate | | | | |
| | oral | LD50 >2000 mg/kg | rat | OECD Test Guideline 401 | |
| | dermal | LD50 >5000 mg/kg | rabbit | | |
| 79-10-7 | acrylic acid; prop-2-enoic acid | | | | |
| | oral | LD50 > 300 mg/kg | Rat | | |
| | dermal | LD50 > 1000 mg/kg | Rabbit | | |
| | inhalation (4 h) vapour | LC50 > 10 mg/l | Rat | | |
| | inhalation dust/mist | ATE 1,5 mg/l | | | |
| 2530-83-8 | (3-(2,3-Epoxypropoxy)propyl)trimethoxysilane | | | | |
| | oral | LD50 8025 mg/kg | rat | OECD Test Guideline 401 | |
| | dermal | LD50 4250 mg/kg | rabbit | OECD Test Guideline 402 | |
| | inhalation vapour | LC50 > 5,3 mg/l | rat | OECD Test Guideline 403 | |
| 79-41-4 | methacrylic acid; 2-methylpropenoic acid | | | | |
| | oral | ATE 500 mg/kg | | | |
| | dermal | ATE 1100 mg/kg | | | |

Irritation and corrosivity

Serious eye damage/eye irritation
Causes skin irritation.

Sensitising effects

May cause sensitisation by skin contact.

Carcinogenic/mutagenic/toxic effects for reproduction

This information is not available.

STOT-single exposure

This information is not available.

STOT-repeated exposure

May cause irritation of respiratory tract.

Aspiration hazard

This information is not available.

Information on likely routes of exposure

Skin contact, Inhalation

Specific effects in experiment on an animal

This information is not available.

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Practical experience

This information is not available.

SECTION 12: Ecological information**12.1. Toxicity**

Do not flush into surface water or sanitary sewer system.

| CAS No | Chemical name | | | | | |
|------------|----------------------------------------------|-----------------|-----------|-----------------------------------------------|-------------------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 7534-94-3 | Isobornylmethacrylate | | | | | |
| | Acute fish toxicity | LC50 1,79 mg/l | 96 h | Danio rerio (zebra fish) | OECD Test Guideline 203 | |
| | Acute algae toxicity | ErC50 2,66 mg/l | 96 h | Pseudokirchneriella subcapitata (green algae) | OECD Test Guideline 201 | |
| | Acute crustacea toxicity | EC50 1,1 mg/l | 48 h | Daphnia magna (Water flea) | OECD Test Guideline 202 | |
| | Crustacea toxicity | NOEC 0,233 mg/l | 21 d | Daphnia magna (Water flea) | | |
| 27813-02-1 | Hydroxypropylmethacrylate | | | | | |
| | Acute fish toxicity | LC50 493 mg/l | 96 h | Leuciscus idus (Golden orfe) | | |
| | Acute crustacea toxicity | EC50 >130 mg/l | 48 h | Daphnia magna (Water flea) | OECD Test Guideline 202 | |
| 2530-83-8 | (3-(2,3-Epoxypropoxy)propyl)trimethoxysilane | | | | | |
| | Acute fish toxicity | LC50 55 mg/l | 96 h | Cyprinus carpio (Carp) | OECD Test Guideline 203 | |
| | Acute algae toxicity | ErC50 255 mg/l | 72 h | Scenedesmus quadricauda (Green algae) | OECD Test Guideline 201 | |
| | Acute crustacea toxicity | EC50 473 mg/l | 48 h | Daphnia magna (Water flea) | OECD Test Guideline 202 | |
| | Fish toxicity | NOEC 100 mg/l | 21 d | Daphnia magna (Water flea) | | |
| | Algae toxicity | NOEC 53 mg/l | 3 d | Scenedesmus capricornutum (fresh water algae) | OECD Test Guideline 201 | |

12.2. Persistence and degradability

| CAS No | Chemical name | | | |
|------------|---------------------------------------------------------------|-------|---|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 7534-94-3 | Isobornylmethacrylate | | | |
| | | 70% | | |
| | Readily biodegradable, according to appropriate OECD test. | | | |
| 27813-02-1 | Hydroxypropylmethacrylate | | | |
| | OECD Test Guideline 301 (aerobic) | 94,2 | | |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| 2530-83-8 | (3-(2,3-Epoxypropoxy)propyl)trimethoxysilane | | | |
| | OECD Test Guideline 301 (aerobic) | 37% | | |

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|---------------------------------|---------|
| 7534-94-3 | Isobornylmethacrylate | 5,09 |
| 27813-02-1 | Hydroxypropylmethacrylate | 0,97 |
| 79-10-7 | acrylic acid; prop-2-enoic acid | 0,35 |

12.4. Mobility in soil

Cured adhesives are immobile.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

no data available

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of as special waste in compliance with local and national regulations.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Dispose of as special waste in compliance with local and national regulations.

SECTION 14: Transport information**Land transport (ADR/RID)**

| | |
|------------------------------------------|----------------------------------------------------------|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

| | |
|------------------------------------------|----------------------------------------------------------|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Marine transport (IMDG)

| | |
|--------------------------------------|----------------------------------------------------------|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
|--------------------------------------|----------------------------------------------------------|

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14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Not a hazardous material with respect to these transportation regulations.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): < 5 %

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 6,8,9,11,12,16.

Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

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(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Skin Irrit. 2; H315 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |
| Skin Sens. 1; H317 | |
| STOT SE 3; H335 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Further Information

These data describe only the safety requirements for the product(s) and are based on our present knowledge. However, they do not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)