

Safety Data Sheet

according to Regulation (EC) No 1907/2006

freerprint® tryin

Revision date: 09.02.2024

Product code: 919

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

1.1. Product identifier

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

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|---|---------------------------|
| Company name: | DETAX GmbH | |
| Street: | Carl-Zeiss-Straße 4 | |
| Place: | D-76275 Ettlingen | |
| Telephone: | +49 7243/510-0 | Telefax: +49 7243/510-100 |
| E-mail: | post@detax.com | |
| Internet: | www.detax.com | |
| Responsible Department: | This number is only obtainable during office hours (Monday - Thursday 8.00 a.m. - 5.00 p.m., Friday 8.00 a.m. - 4.00 p.m.) | |

1.4. Emergency telephone number:

+1-800-424-9300 (CHEMTREC worldwide)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Sens. 1; H317
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

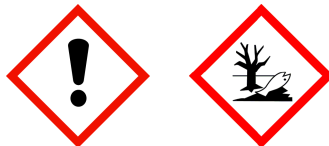
Regulation (EC) No 1272/2008

Hazard components for labelling

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate
2-hydroxyethyl methacrylate
Hydroxy propyl methacrylate
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Signal word: Warning

Pictograms:



Hazard statements

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.

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2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | | Quantity |
|-------------|--|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| | Alkoxylated phenol derivative, methacrylate terminated | | | 40 - < 60 % |
| | Aquatic Chronic 4; H413 | | | |
| 72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate | | | 20 - < 40 % |
| | 276-957-5 | | 01-2120751202-68 | |
| | Skin Sens. 1B, Aquatic Chronic 2; H317 H411 | | | |
| 6606-59-3 | 1,6-hexanediol dimethacrylate | | | 0.1 - < 5 % |
| | 229-551-7 | | | |
| | Aquatic Chronic 3; H412 | | | |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | 0.1 - < 5 % |
| | 212-782-2 | 607-124-00-X | 01-2119490169-29 | |
| | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317 | | | |
| 68909-20-6 | silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)- hydrolysis products with silicon dioxide | | | 0.1 - < 5 % |
| | 272-697-1 | | | |
| | STOT RE 2; H373 | | | |
| 27813-02-1 | Hydroxy propyl methacrylate | | | 0.1 - < 5 % |
| | 248-666-3 | | 01-2119490226-37 | |
| | Eye Irrit. 2, Skin Sens. 1; H319 H317 | | | |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | 0.1 - < 5 % |
| | 278-355-8 | 015-203-00-X | 01-2119972295-29 | |
| | Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361 H317 H411 | | | |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | | | 0.1 - < 5 % |
| | 423-340-5 | 015-189-00-5 | 01-2119489401-38 | |
| | Skin Sens. 1A, Aquatic Chronic 4; H317 H413 | | | |

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 | |
| 72869-86-4 | 276-957-5 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate | 20 - < 40 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg | |
| 868-77-9 | 212-782-2 | 2-hydroxyethyl methacrylate | 0.1 - < 5 % |
| | | dermal: LD50 = >5000 mg/kg; oral: LD50 = 5564 mg/kg | |
| 27813-02-1 | 248-666-3 | Hydroxy propyl methacrylate | 0.1 - < 5 % |
| | | dermal: LD50 = >5000 mg/kg; oral: LD50 = >2000 mg/kg | |
| 75980-60-8 | 278-355-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 0.1 - < 5 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg | |
| 162881-26-7 | 423-340-5 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | 0.1 - < 5 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg | |

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink 1 glass of water.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and

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clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

| CAS No | Name of agent | | | |
|--------------------------|---|----------|-------------------------|--|
| DNEL type | Exposure route | Effect | Value | |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | |
| Worker DNEL, long-term | inhalation | systemic | 0,822 mg/m ³ | |
| Worker DNEL, long-term | dermal | systemic | 0,233 mg/kg bw/day | |
| Consumer DNEL, long-term | inhalation | systemic | 0,145 mg/m ³ | |
| Consumer DNEL, long-term | dermal | systemic | 0,0833 mg/kg bw/day | |
| Consumer DNEL, long-term | oral | systemic | 0,0833 mg/kg bw/day | |

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four

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control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Butyl caoutchouc (butyl rubber)

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | | |
|---|---------|--|--------------------|
| Physical state: | liquid: | | |
| Colour: | | | |
| | | | Test method |
| Melting point/freezing point: | | not determined | |
| Boiling point or initial boiling point and boiling range: | | 315 °C | |
| Flammability: | | not determined | |
| Lower explosion limits: | | not determined | |
| Upper explosion limits: | | not determined | |
| Flash point: | | >93 °C | DIN 51755 |
| Auto-ignition temperature: | | 445 °C | |
| Decomposition temperature: | | >=190 °C | |
| pH-Value: | | not determined | |
| Viscosity / kinematic: | | not determined | |
| Water solubility: | | The study does not need to be conducted because the substance is known to be insoluble in water. | |
| Solubility in other solvents | | | |
| not determined | | | |
| Partition coefficient n-octanol/water: | | not determined | |
| Vapour pressure: | | <1 hPa | |
| (at 20 °C) | | | |
| Density (at 20 °C): | | 1,1 g/cm³ | DIN 51757 |
| Relative vapour density: | | not determined | |
| Particle characteristics: | | not applicable | |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate: not determined

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

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10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

ATE_{mix} calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|-------------|--|------------------|---------|----------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate | | | | |
| | oral | LD50 >5000 mg/kg | Rat | OECD 401 | |
| | dermal | LD50 >2000 mg/kg | Rat | OECD 402 | |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | | |
| | oral | LD50 5564 mg/kg | Rat | | |
| | dermal | LD50 >5000 mg/kg | Rabbit | | |
| 27813-02-1 | Hydroxy propyl methacrylate | | | | |
| | oral | LD50 >2000 mg/kg | Rat | OECD 401 | |
| | dermal | LD50 >5000 mg/kg | Rabbit | | |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | | |
| | oral | LD50 >5000 mg/kg | Rat | | |
| | dermal | LD50 >2000 mg/kg | Rat | | |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | | | | |
| | oral | LD50 >2000 mg/kg | Rat | OECD 401 | |
| | dermal | LD50 >2000 mg/kg | Rat | OECD 402 | |

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate; 2-hydroxyethyl methacrylate; Hydroxy propyl methacrylate; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide)

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Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

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| CAS No | Chemical name | | | | | |
|-------------|--|-------------------|-----------|---------------------------------|----------|----------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| | Alkoxyated phenol derivative, methacrylate terminated | | | | | |
| | Acute fish toxicity | LC50 >100 mg/l | 96 h | | | |
| | Acute algae toxicity | ErC50 >100 mg/l | 72 h | | | |
| | Acute crustacea toxicity | EC50 >100 mg/l | 48 h | | | |
| 72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate | | | | | |
| | Acute fish toxicity | LC50 10,1 mg/l | 96 h | | | OECD 203 |
| | Acute algae toxicity | ErC50 0,21 mg/l | 72 h | | | OECD 201 |
| | Acute crustacea toxicity | EC50 >1,2 mg/l | 48 h | Daphnia magna (Big water flea) | OECD 202 | |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | | | |
| | Acute fish toxicity | LC50 >100 mg/l | 96 h | Oryzias latipes | | OECD 203 |
| | Acute algae toxicity | ErC50 836 mg/l | 72 h | Selenastrum capricornutum | | OECD 201 |
| | Acute crustacea toxicity | EC50 380 mg/l | 48 h | Daphnia magna | | OECD 202 |
| 27813-02-1 | Hydroxy propyl methacrylate | | | | | |
| | Acute fish toxicity | LC50 493 mg/l | 96 h | Leuciscus idus (golden orfe) | | |
| | Acute algae toxicity | ErC50 >97,2 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD 201 | |
| | Acute crustacea toxicity | EC50 380 mg/l | 48 h | Daphnia magna (Big water flea) | OECD 202 | |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | | | |
| | Acute algae toxicity | ErC50 >2,01 mg/l | 72 h | Pseudokirchneriella subcapitata | | |
| | Acute crustacea toxicity | EC50 3,53 mg/l | 48 h | Daphnia magna (Big water flea) | | |
| | Acute bacteria toxicity | (EC50 >1000 mg/l) | 3 h | Activated sludge | | |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | | | | | |
| | Acute fish toxicity | LC50 >0,09 mg/l | 96 h | Danio rerio (zebrafish) | OECD 203 | |
| | Acute algae toxicity | ErC50 >0,26 mg/l | 72 h | Desmodesmus subspicatus | OECD 201 | |
| | Acute crustacea toxicity | EC50 >1,175 mg/l | 48 h | Daphnia magna (Big water flea) | OECD 202 | |
| | Crustacea toxicity | NOEC >0,008 mg/l | 21 d | Daphnia magna (Big water flea) | OECD 211 | |
| | Acute bacteria toxicity | (EC50 >100 mg/l) | 3 h | OECD 209 | | |

12.2. Persistence and degradability

The product has not been tested.

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| CAS No | Chemical name | Method | Value | d | Source |
|-------------|--|---|---------|----|--------|
| | | Evaluation | | | |
| 868-77-9 | 2-hydroxyethyl methacrylate | | 92-100% | 14 | |
| | Readily biodegradable (according to OECD criteria). | | | | |
| 27813-02-1 | Hydroxy propyl methacrylate | OECD | 94% | 28 | |
| | Readily biodegradable (according to OECD criteria). | | | | |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | 0-10% | 28 | |
| | Not readily biodegradable (according to OECD criteria) | | | | |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | CO ₂ formation (% of the theoretical value). | 1% | 29 | |
| | Not readily biodegradable (according to OECD criteria) | | | | |

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-------------|--|---------|
| 72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate | 3,39 |
| 27813-02-1 | Hydroxy propyl methacrylate | 0,97 |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 3,1 |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | 5,8 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-------------|--|-------|-------------------------------|----------|
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 47-55 | Cyprinus carpio (Common Carp) | |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | <5 | Cyprinus carpio (Common Carp) | OECD 305 |

12.4. Mobility in soil

The product has not been tested.

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.

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 information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

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Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|---|
| 14.1. UN number or ID number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| Hazard label: | 9 |
| Classification code: | M6 |
| Special Provisions: | 274 335 375 601 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| Transport category: | 3 |
| Hazard No: | 90 |
| Tunnel restriction code: | - |

Inland waterways transport (ADN)

| | |
|--|---|
| 14.1. UN number or ID number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| Hazard label: | 9 |
| Classification code: | M6 |
| Special Provisions: | 274 335 375 601 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |

Marine transport (IMDG)

| | |
|--|---|
| 14.1. UN number or ID number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| Hazard label: | 9 |
| Special Provisions: | 274 335 969 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| EmS: | F-A, S-F |

Other applicable information (marine transport)

Flash point: > 100°C

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|---|
| 14.1. UN number or ID number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| Hazard label: | 9 |
| Special Provisions: | A97 A158 A197 A215 |
| Limited quantity Passenger: | 30 kg G |
| Passenger LQ: | Y964 |
| Excepted quantity: | E1 |
| IATA-packing instructions - Passenger: | 964 |
| IATA-max. quantity - Passenger: | 450 L |
| IATA-packing instructions - Cargo: | 964 |

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IATA-max. quantity - Cargo:

450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

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 75

Information according to 2012/18/EU (SEVESO III):

E2 Hazardous to the Aquatic Environment

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

3 - highly hazardous to water

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

Additional information

NZ:

HSR-Number: HSR002558

Group Standard: Dental Products - Subsidiary Hazard, Group Standard 2020

15.2. Chemical safety assessment

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

SECTION 16: Other information

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Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
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
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
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
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)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
Skin Irrit: Skin irritation
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
Repr: Reproductive toxicity
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Chronic: Chronic aquatic hazard

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

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Skin Sens. 1; H317 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

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| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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