

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

freeprint® gingiva 385

Revision date: 24.02.2023

Product code: 1045

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

1.1. Product identifier

freeprint® gingiva 385

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

Use of the substance/mixture

Light-curing resin for the generative fabrication of flexible gingival masks for models.

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. 1907/2006

Eye Irrit. 2; H319
Skin Sens. 1; H317
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

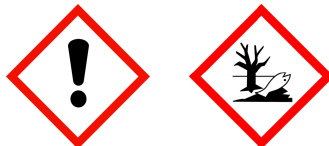
Regulation (EC) No. 1907/2006

Hazard components for labelling

2-[[[(butylamino)carbonyl]oxy]ethyl acrylate
Hydroxy propyl methacrylate
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
2-hydroxyethyl methacrylate

Signal word: Warning

Pictograms:



Hazard statements

| | |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| 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. |

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| | |
|-----------|---|
| 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 and national regulations. |

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of acrylic/ methacrylic resins with auxilliary matters.

Hazardous components

| CAS No | Chemical name | | | Quantity |
|-------------|--|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No. 1907/2006) | | | |
| 63225-53-6 | 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate | | | 20 - < 40 % |
| | 264-036-0 | | 01-2120751208- | |
| | Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 2; H332 H317 H411 | | | |
| 27813-02-1 | Hydroxy propyl methacrylate | | | 5 - < 20 % |
| | 248-666-3 | | 01-2119490226-37 | |
| | Eye Irrit. 2, Skin Sens. 1; H319 H317 | | | |
| 72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate | | | 5 - < 20 % |
| | 276-957-5 | | 01-2120751202-68 | |
| | Skin Sens. 1B, Aquatic Chronic 2; H317 H411 | | | |
| 142-90-5 | dodecyl methacrylate | | | 5 - < 20 % |
| | 205-570-6 | 607-247-00-9 | 01-2119489778-11 | |
| | STOT SE 3; H335 | | | |
| 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 | | | |
| 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 | | | |
| 128-37-0 | "BHT; butylated hydroxytoluene" | | | 0.1 - < 5 % |
| | 204-881-4 | | | |
| | Aquatic Acute 1, Aquatic Chronic 1; H400 H410 | | | |

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 | | |
| 63225-53-6 | 264-036-0 | 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate | 20 - < 40 % |
| | | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 2000-5000 mg/kg | |
| 27813-02-1 | 248-666-3 | Hydroxy propyl methacrylate | 5 - < 20 % |
| | | dermal: LD50 = >5000 mg/kg; oral: LD50 = >2000 mg/kg | |
| 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 | 5 - < 20 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg | |
| 142-90-5 | 205-570-6 | dodecyl methacrylate | 5 - < 20 % |
| | | dermal: LD50 = >3000 mg/kg; oral: LD50 = >5000 mg/kg STOT SE 3; H335: >= 10 - 100 | |
| 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 | |
| 868-77-9 | 212-782-2 | 2-hydroxyethyl methacrylate | 0.1 - < 5 % |
| | | dermal: LD50 = >5000 mg/kg; oral: LD50 = 5564 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

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink 1 glass of water.

Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered flow out of the vomit (danger of suffocation).

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.

5.3. Advice for firefighters

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

Additional information

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

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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 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.

Other information

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.

Hints on joint storage

Keep away from spontaneous flammable or combustible substances.

Further information on storage conditions

Keep only in the original container in a dry and well-ventilated place, away from foodstuffs. Keep away from all kind of light. An inert gas blanket should not be applied, because the stability of the product depends on the presence of oxygen (air).

7.3. Specific end use(s)

Light-curing resin for the generative fabrication of flexible gingival masks for models.

For use by trained specialist staff.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|----------------------------|-----|-------------------|-----------|-----------|--------|
| 128-37-0 | 2,6-Di-tert-butyl-p-cresol | - | 10 | | TWA (8 h) | WEL |

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8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

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

Suitable are gloves of the following material: 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: | gingiva coloured |
| Odour: | faintly like esters |

| | Test method |
|---|--|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | not determined |
| Flammability | |
| Solid/liquid: | not applicable |
| Gas: | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Flash point: | >100 °C DIN 51755 |
| Auto-ignition temperature: | not determined |
| Decomposition temperature: | >=190 °C |
| pH-Value: | 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: | ca. 1 hPa |
| (at 20 °C) | |
| Density (at 20 °C): | 1,1 g/cm ³ DIN 51757 |
| Relative vapour density: | not determined |

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

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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.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reacts with : strong oxidising agents, strong alkaline or acidic materials., oxidising agents, radicals forming substances or heavy metal ions.

10.4. Conditions to avoid

Ultra-violet light and daylight initiate polymerisation of the product. Therefore keep only in tightly closed containers away from any sources of light at 15°C - 28°C / 59°F - 82 °F.

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. 1907/2006

Acute toxicity

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

ATEmix calculated

ATE (inhalation vapour) 38,34 mg/l; ATE (inhalation dust/mist) 5,228 mg/l

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| CAS No | Chemical name | | | | |
|-------------|--|----------------------|---------|----------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 63225-53-6 | 2-[[butylamino]carbonyl]oxy]ethyl acrylate | | | | |
| | oral | LD50 2000-5000 mg/kg | Rat | OECD 423 | |
| | inhalation vapour | ATE 11 mg/l | | | |
| | inhalation dust/mist | ATE 1,5 mg/l | | | |
| 27813-02-1 | Hydroxy propyl methacrylate | | | | |
| | oral | LD50 >2000 mg/kg | Rat | OECD 401 | |
| | dermal | LD50 >5000 mg/kg | Rabbit | | |
| 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 | |
| 142-90-5 | dodecyl methacrylate | | | | |
| | oral | LD50 >5000 mg/kg | Rat | OECD 401 | |
| | dermal | LD50 >3000 mg/kg | Rabbit | | |
| 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 | |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | | |
| | oral | LD50 5564 mg/kg | Rat | | |
| | dermal | LD50 >5000 mg/kg | Rabbit | | |

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

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.

Further information

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

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SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

| CAS No | Chemical name | | | | | |
|-------------|---|----------------|-----------|---------|------------------------------------|----------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 63225-53-6 | 2-[[[butylamino]carbonyloxy]ethyl acrylate | | | | | |
| | Acute fish toxicity | LC50 mg/l | 2,52 | 96 h | OECD 203 | |
| | Acute algae toxicity | ErC50 mg/l | 5,98 | 72 h | OECD 201 | |
| | Acute crustacea toxicity | EC50 mg/l | 18,6 | 48 h | 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 mg/l | >97,2 | 72 h | Pseudokirchneriella subcapitata | OECD 201 |
| | Acute crustacea toxicity | EC50 | 380 mg/l | 48 h | Daphnia magna (Big water flea) | OECD 202 |
| 72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazaheptadecane-1,16-diyl bismethacrylate | | | | | |
| | Acute fish toxicity | LC50 mg/l | 10,1 | 96 h | | OECD 203 |
| | Acute algae toxicity | ErC50 mg/l | 0,21 | 72 h | | OECD 201 |
| | Acute crustacea toxicity | EC50 mg/l | >1,2 | 48 h | Daphnia magna (Big water flea) | OECD 202 |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | | | | | |
| | Acute fish toxicity | LC50 mg/l | >0,09 | 96 h | Danio rerio (zebrafish) | OECD 203 |
| | Acute algae toxicity | ErC50 mg/l | >0,26 | 72 h | Desmodesmus subspicatus | OECD 201 |
| | Acute crustacea toxicity | EC50 mg/l | >1,175 | 48 h | Daphnia magna (Big water flea) | OECD 202 |
| | Crustacea toxicity | NOEC mg/l | >0,008 | 21 d | Daphnia magna (Big water flea) | OECD 211 |
| | Acute bacteria toxicity | (EC50 mg/l) | >100 | 3 h | OECD 209 | |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | | | |
| | Acute fish toxicity | LC50 mg/l | >100 | 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 |
| 128-37-0 | "BHT; butylated hydroxytoluene" | | | | | |
| | Acute crustacea toxicity | EC50 mg/l | 0,61 | 48 h | Daphnia ssp | OECD 202 |

12.2. Persistence and degradability

The product has not been tested.

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| CAS No | Chemical name | | | |
|-------------|---|---------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 63225-53-6 | 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate | | | |
| | OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D | 15% | 28 | |
| 27813-02-1 | Hydroxy propyl methacrylate | | | |
| | OECD | 94% | 28 | |
| | Readily biodegradable (according to OECD criteria). | | | |
| 142-90-5 | dodecyl methacrylate | | | |
| | OECD 201 | 88,5% | 28 | |
| | 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) | | | |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | |
| | | 92-100% | 14 | |
| | 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 |
|-------------|--|---------|
| 63225-53-6 | 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate | 1,82 |
| 27813-02-1 | Hydroxy propyl methacrylate | 0,97 |
| 72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate | 3,39 |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | 5,8 |
| 128-37-0 | "BHT; butylated hydroxytoluene" | 5,1 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-------------|--|-----|-------------------------------|----------|
| 142-90-5 | dodecyl methacrylate | 37 | Danio rerio (zebrafish) | OECD 305 |
| 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 UK REACH.

Not identified as PBT/ vPvB substances

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

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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.

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: | - |

Other applicable information (land transport)

Contains: 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate

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)

Contains: 2-[[[(Butylamino)carbonyl]oxy]ethylacrylat

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 |

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| | | |
|--|---------|-------|
| 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 |
| IATA-max. quantity - Cargo: | | 450 L |

Other applicable information (air transport)

Contains: 2-[[[(Butylamino)carbonyl]oxy]ethyl]acrylat

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.

15.2. Chemical safety assessment

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

SECTION 16: Other information

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

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

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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).

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1907/2006

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Eye Irrit. 2; H319 | Calculation method |
| 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.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic 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.)