

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Acrylgel: Natural Clear, Milky Rose, Natural Pink, Natural Soft Pink, Natural Rose,Camouflage, Weiss

Revision date: 22.01.2025

Product code: AG-Reihe

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

Acrylgel: Natural Clear, Milky Rose, Natural Pink, Natural Soft Pink, Natural Rose,Camouflage, Weiss

Further trade names

Acrylgel: Natural Clear, Milky Rose, Natural Pink, Natural Soft Pink, Natural Rose,Camouflage, Weiss, Glitter

Artikel-Nr.: AG NC,AG MR , AG NP, AG NSP, AG NR, AG C 1-999, AG W 1-999, AG G 1-999

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

Professional use.

Nail polish and gels

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

| | |
|---------------|---------------------------|
| Company name: | UNIQUE NAILS |
| Street: | IPSOUNTOS 7 |
| Place: | ATHENS, GREECE |
| Telephone: | +302108656070 |
| E-mail: | info@unique-cosmetics.com |
| Internet: | www.unique-cosmetics.com |

1.4. Emergency telephone number:

+306936040550

Further Information

This product is subject to the regulation (EC) No 1223/2009. This sheet was prepared on a voluntary basis.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

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

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Skin Sens. 1; H317

STOT SE 3; H335

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**

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

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Urethane methacrylate

2,2'-ethylenedioxydiethylmethacrylate

Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate

Methyl benzoylformate

2-hydroxypropyl methacrylate

Signal word: Warning

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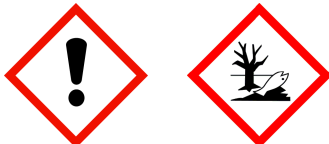
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Pictograms:



Hazard statements

| | |
|------|--------------------------------------------------|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory 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. |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |
| 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 to local/regional/national/international regulations. |

Additional advice on labelling

Labelling according to Regulation (EC) No. 1223/2009.

2.3. Other hazards

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|------------|--------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 55818-57-0 | 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | | | 45 - < 50 % |
| | 500-130-2 | | 01-2119490020-53 | |
| | Skin Sens. 1, Aquatic Chronic 2; H317 H411 | | | |
| 42978-66-5 | (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate | | | 10 - < 12 % |
| | 256-032-2 | 607-249-00-X | 01-2119484613-34 | |
| | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Chronic 2; H315 H319 H317 H335 H411 | | | |
| - | Urethane methacrylate | | | 5 - < 7 % |
| | 934-759-2 | | | |
| | Skin Sens. 1, Aquatic Chronic 2; H317 H411 | | | |
| 109-16-0 | 2,2'-ethylenedioxydiethyldimethacrylate | | | 5 - < 7 % |
| | 203-652-6 | | 01-2119969287-21 | |
| | Skin Sens. 1B; H317 | | | |
| 84434-11-7 | Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate | | | 3 - < 5 % |

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| | | | |
|------------|------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| | 282-810-6 | | |
| | Skin Sens. 1B, Aquatic Chronic 2; H317 H411 | | |
| 15206-55-0 | Methyl benzoylformate | | 0.5 - < 1 % |
| | 239-263-3 | 01-2120101338-67 | |
| | Skin Sens. 1; H317 | | |
| 923-26-2 | 2-hydroxypropyl methacrylate | | 0.1 - < 0.2 % |
| | 213-090-3 | 607-125-00-5 | |
| | Eye Irrit. 2, Skin Sens. 1; H319 H317 | | |
| 110-82-7 | cyclohexane | | < 0.1 % |
| | 203-806-2 | 601-017-00-1 | |
| | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410 | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|--------------------------------------------------------------------------------------------------------------------|-------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 55818-57-0 | 500-130-2 | 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | 45 - < 50 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg | |
| 42978-66-5 | 256-032-2 | (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate | 10 - < 12 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg STOT SE 3; H335: >= 10 - 100 | |
| 109-16-0 | 203-652-6 | 2,2'-ethylenedioxydiethyldimethacrylate | 5 - < 7 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 10837 mg/kg | |
| 15206-55-0 | 239-263-3 | Methyl benzoylformate | 0.5 - < 1 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 6800 - 10000 mg/kg | |
| 110-82-7 | 203-806-2 | cyclohexane | < 0.1 % |
| | | inhalation: LC50 = >19,07 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg | |

Further Information

cyclohexane: Substance with a common (EC) occupational exposure limit value.

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

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After ingestion

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

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**

Sand. Foam. Carbon dioxide (CO₂). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂).

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

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

See protective measures under point 7 and 8.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

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

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

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

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

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7.1. Precautions for safe handling**Advice on safe handling**

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

When using do not eat, drink or smoke.

Further information on handling

General protection and hygiene measures: See section 8.

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

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

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

| CAS No | Substance | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|------------|----------------------------------------|-----|-------------------|---------------------|-----------|--------|
| 128-37-0 | 2,6-Ditertiary-butyl-para-cresol | - | 2 | | TWA (8 h) | |
| 150-76-5 | 4-Methoxyphenol | - | 5 | | TWA (8 h) | |
| 110-82-7 | Cyclohexane | 200 | 700 | | TWA (8 h) | |
| 13463-67-7 | Titanium dioxide, respirable dust | - | 4 | | TWA (8 h) | |
| 13463-67-7 | Titanium dioxide, total inhalable dust | - | 10 | | TWA (8 h) | |

DNEL/DMEL values

| CAS No | Substance | | | |
|------------------------|--------------------------------------------------------------------------------------------------------------------|--|----------|------------------------|
| DNEL type | Exposure route | | Effect | Value |
| 55818-57-0 | 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | | | |
| Worker DNEL, long-term | inhalation | | systemic | 1,17 mg/m ³ |
| Worker DNEL, long-term | dermal | | systemic | 33 mg/kg bw/day |
| 42978-66-5 | (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate | | | |
| Worker DNEL, long-term | inhalation | | systemic | 2,35 mg/m ³ |
| Worker DNEL, long-term | dermal | | systemic | 1,7 mg/kg bw/day |

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| | | | |
|--------------------------|------------------------------------------------|----------|-------------------|
| 13463-67-7 | titanium dioxide (> 10 µm) | | |
| Worker DNEL, long-term | inhalation | local | 1,25 mg/m³ |
| 109-16-0 | 2,2'-ethylenedioxydiethyldimethacrylate | | |
| Worker DNEL, long-term | inhalation | systemic | 48,5 mg/m³ |
| Worker DNEL, long-term | dermal | systemic | 13,9 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 14,5 mg/m³ |
| Consumer DNEL, long-term | dermal | systemic | 8,33 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 8,33 mg/kg bw/day |
| 84434-11-7 | Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate | | |
| Worker DNEL, long-term | inhalation | systemic | 4,93 mg/m³ |
| Worker DNEL, long-term | dermal | systemic | 1,4 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 0,87 mg/m³ |
| Consumer DNEL, long-term | dermal | systemic | 0,5 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 0,5 mg/kg bw/day |

PNEC values

| CAS No | Substance | |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------|
| Environmental compartment | | Value |
| 55818-57-0 | 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | |
| Freshwater | | 0,025 mg/l |
| Marine water | | 0,003 mg/l |
| Freshwater sediment | | 8,96 mg/kg |
| Marine sediment | | 0,896 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 1,78 mg/kg |
| 42978-66-5 | (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate | |
| Freshwater | | 0,005 mg/l |
| Marine water | | 0 mg/l |
| Freshwater sediment | | 0,487 mg/kg |
| Marine sediment | | 0,049 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,095 mg/kg |
| 109-16-0 | 2,2'-ethylenedioxydiethyldimethacrylate | |
| Freshwater | | 0,016 mg/l |
| Freshwater (intermittent releases) | | 0,016 mg/l |
| Marine water | | 0,002 mg/l |
| Freshwater sediment | | 0,185 mg/kg |
| Marine sediment | | 0,018 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 1,7 mg/l |
| Soil | | 0,027 mg/kg |
| 84434-11-7 | Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate | |

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| Freshwater | 0,00101 mg/l |
| Freshwater (intermittent releases) | 0,0101 mg/l |
| Marine water | 0,000101 mg/l |
| Freshwater sediment | 0,24 mg/kg |
| Marine sediment | 0,024 mg/kg |
| Soil | 0,0475 mg/kg |
| 15206-55-0 | Methyl benzoylformate |
| Freshwater | 0,069 mg/l |
| Freshwater (intermittent releases) | 0,686 mg/l |
| Marine water | 0,007 mg/l |
| Freshwater sediment | 0,47 mg/kg |
| Marine sediment | 0,047 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 39 mg/l |
| Soil | 0,027 mg/kg |

8.2. Exposure controls**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

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

Wear safety glasses; chemical goggles (if splashing is possible). EN ISO 16321-1:2022

Hand protection

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time \geq 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time \geq 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

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.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

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Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- Exceeding exposure limit values
- Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). type: P1-3

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

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

| | | |
|-----------------------------------------------------------|----------------|---------------------------|
| Physical state: | liquid | |
| Colour: | various | |
| 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: | | not determined |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature: | | not relevant |
| pH-Value: | | not determined |
| Viscosity / kinematic: | | not determined |
| Water solubility: | | not determined |
| Solubility in other solvents | | |
| not determined | | |
| Dissolution rate: | | not relevant |
| Partition coefficient n-octanol/water: | | not relevant |
| Dispersion stability: | | not relevant |
| Vapour pressure: | | not determined |
| Density: | | ca. 1,1 g/cm ³ |
| Bulk density: | | not relevant |
| Relative vapour density: | | not determined |
| Particle characteristics: | | not relevant |

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

| | |
|---------------------------|-------------------|
| Explosive properties | |
| none | |
| Sustaining combustion: | No data available |
| Self-ignition temperature | |
| Solid: | not determined |
| Gas: | not determined |

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Oxidizing properties
none

Other safety characteristics

| | |
|--------------------------|----------------|
| Evaporation rate: | not determined |
| Solvent separation test: | not determined |
| Solvent content: | not determined |
| Solid content: | not determined |
| Sublimation point: | not relevant |
| Softening point: | not relevant |
| Pour point: | not relevant |
| Viscosity / dynamic: | not determined |
| Flow time: | not determined |

Further Information

No information available.

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

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.
Refer to section 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

No information available.

Acute toxicity

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

ATEmix 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 |
| 55818-57-0 | 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | | | | |
| | oral | LD50 >2000 mg/kg | Rat | REACH Dossier | |
| | dermal | LD50 >2000 mg/kg | Rat | REACH Dossier | |

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|------------|---------------------------------------------------------------------|---------------|-----------------|--------|-------------------------------------|
| 42978-66-5 | (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate | | | | |
| | oral | LD50 mg/kg | >2000 | Rat | REACH Dossier |
| | dermal | LD50 mg/kg | >2000 | Rabbit | REACH Dossier |
| 109-16-0 | 2,2'-ethylenedioxydiethylmethacrylate | | | | |
| | oral | LD50 mg/kg | 10837 | Rat | REACH Dossier |
| | dermal | LD50 mg/kg | > 2000 | Mouse | REACH Dossier |
| 15206-55-0 | Methyl benzoylformate | | | | |
| | oral | LD50 mg/kg | 6800 - 10000 | Rat | REACH Dossier OECD Guideline 401 |
| | dermal | LD50 mg/kg | > 2000 | Rat | REACH Dossier OECD Guideline 402 |
| 110-82-7 | cyclohexane | | | | |
| | oral | LD50 mg/kg | >5000 | Rat | REACH Dossier |
| | dermal | LD50 mg/kg | >2000 | Rabbit | REACH Dossier |
| | inhalation (4 h) vapour | LC50 mg/l | >19,07 | Rat | REACH Dossier |

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid; (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate; Urethane methacrylate; 2,2'-ethylenedioxydiethylmethacrylate; Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate; Methyl benzoylformate; 2-hydroxypropyl methacrylate; mequinol; 4-methoxyphenol; hydroquinone monomethyl ether; 4-methoxyphenol (p-Hydroxyanisole; hydroquinone monomethyl ether; mequinol))

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

2,2'-ethylenedioxydiethylmethacrylate (CAS-No.: 109-16-0):

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), OECD Guideline 487

""In vitro Mammalian Cell Micronucleus Test""; Result: negative. Method: OECD Guideline 476 (In Vitro

Mammalian Cell Gene Mutation Test). Result: heterogeneous; Literature information: REACH Dossier;

Developmental toxicity/teratogenicity/Reproductive toxicity: Method: OECD Guideline 422 (Combined Repeated

Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Species: Rat; Exposure

duration: 35-42 d. Result: NOAEL = 1000 mg/kg(bw)day; Literature information: REACH Dossier

cyclohexane (CAS-No.: 110-82-7):

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result: negative.

Literature information: REACH Dossier

Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) Species:

Rat; Exposure duration: 11w. Result: NOAEC = 500 ppm; Literature information: REACH Dossier

Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rat; Exposure duration: 10 d. Result: NOAEC = 500 ppm; Literature information: REACH Dossier

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STOT-single exposure

May cause respiratory irritation. ((1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate)

STOT-repeated exposure

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

cyclohexane (CAS-No.: 110-82-7):

Subchronic inhalation toxicity: Method EPA OPPTS 870.3465 (90-Day Inhalation Toxicity) Species: Rat ;

Exposure duration: 90 d Result: NOAEC = 500 ppm. Literature information: REACH Dossier

Aspiration hazard

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

11.2. Information on other hazards**Endocrine disrupting properties**

This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

No data available.

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 |
| 55818-57-0 | 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | | | | | |
| | Acute fish toxicity | LL50 mg/l | > 100 | 96 h | Cyprinus carpio | REACH Dossier |
| | Acute algae toxicity | ErC50 | 105 mg/l | 72 h | Raphidocelis subcapitata | REACH Dossier |
| | Acute crustacea toxicity | EL50 mg/l | > 100 | 48 h | Daphnia magna | REACH Dossier |
| | Fish toxicity | NOEC mg/l | 0,25 | 33 d | Pimephales promelas | REACH Dossier |
| | Crustacea toxicity | NOEC mg/l | >= 0,51 | 21 d | Daphnia magna | REACH Dossier |
| | Acute bacteria toxicity | EC50 mg/l () | > 1000 | 3 h | Activated sludge | REACH Dossier |
| 42978-66-5 | (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate | | | | | |
| | Acute fish toxicity | LC50 mg/l | 4,6 - 10 | 96 h | Leuciscus idus | REACH Dossier |
| | Acute algae toxicity | ErC50 mg/l | 65,9 | 72 h | Desmodesmus subspicatus | REACH Dossier |
| | Acute crustacea toxicity | EC50 | 89 mg/l | 48 h | Daphnia magna | REACH Dossier |
| 109-16-0 | 2,2'-ethylenedioxydiethyldimethacrylate | | | | | |
| | Acute fish toxicity | LC50 mg/l | 16,4 | 96 h | Danio rerio | REACH Dossier |
| | Acute algae toxicity | ErC50 mg/l | > 100 | 72 h | Raphidocelis subcapitata | REACH Dossier |
| | Crustacea toxicity | NOEC | 32 mg/l | 21 d | Daphnia magna | REACH Dossier |
| 15206-55-0 | Methyl benzoylformate | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 120 | 96 h | Danio rerio | REACH Dossier |

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| | | | | | | | |
|----------|--------------------------|------------------|----------|------|-----------------------------|---------------|-----------------------|
| | Acute algae toxicity | ErC50 mg/l | 94,4 | 72 h | Raphidocelis subcapitata | REACH Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | > 120 | 48 h | Daphnia magna | REACH Dossier | OECD Guideline 202 |
| | Acute bacteria toxicity | EC50 mg/l () | > 1000 | 3 h | Activated sludge | REACH Dossier | OECD Guideline 209 |
| 110-82-7 | cyclohexane | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 4,35 | 96 h | Pimephales promelas | REACH Dossier | |
| | Acute algae toxicity | ErC50 mg/l | >4,425 | 72 h | Raphidocelis subcapitata | REACH Dossier | |
| | Acute crustacea toxicity | EC50 | 0,9 mg/l | 48 h | Daphnia magna | REACH Dossier | |

12.2. Persistence and degradability

| CAS No | Chemical name | | | |
|------------|--------------------------------------------------------------------------------------------------------------------|--------|----|---------------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 55818-57-0 | 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | | | |
| | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D | 42 % | 28 | REACH Dossier |
| | Not readily biodegradable (according to OECD criteria) | | | |
| 109-16-0 | 2,2'-ethylenedioxydiethyldimethacrylate | | | |
| | OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C | 85 % | 28 | REACH Dossier |
| | Readily biodegradable (according to OECD criteria). | | | |
| 84434-11-7 | Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate | | | |
| | OECD Guideline 301 F | < 10 % | 28 | REACH Dossier |
| | Not easily bio-degradable (according to OECD-criteria). | | | |
| 110-82-7 | cyclohexane | | | |
| | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D | 77 % | 28 | REACH Dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|------------|--------------------------------------------------------------------------------------------------------------------|---------------|
| 55818-57-0 | 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid | ca. 1,6 - 3,8 |
| 42978-66-5 | (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate | 2,0 |
| 109-16-0 | 2,2'-ethylenedioxydiethyldimethacrylate | 2,3 |
| 84434-11-7 | Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate | 2,91 |
| 15206-55-0 | Methyl benzoylformate | 1,9 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|----------|-----------------------------------------|-----|---------|---------------|
| 109-16-0 | 2,2'-ethylenedioxydiethyldimethacrylate | 16 | | REACH Dossier |

12.4. Mobility in soil

No information available.

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.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

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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.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

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

14.3. Transport hazard class(es):

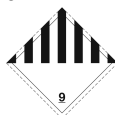
9

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

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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.
(4,4'-Isopropylidenediphenol, oligomeric reaction products with
1-chloro-2,3-epoxypropane, esters with acrylic acid)**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.
(4,4'-Isopropylidenediphenol, oligomeric reaction products with
1-chloro-2,3-epoxypropane, esters with acrylic acid)**14.3. Transport hazard class(es):**

9

14.4. Packing group:

III

Hazard label:

9



Marine pollutant:

YES

Special Provisions:

274 335 969

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-F

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.
(4,4'-Isopropylidenediphenol, oligomeric reaction products with
1-chloro-2,3-epoxypropane, esters with acrylic acid)**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



Danger releasing substance:

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

14.6. Special precautions for user

refer to section 6 - 8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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

Directive 2010/75/EU on industrial emissions: not determined

Directive 2004/42/EC on VOC in paints and varnishes: not determined

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

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

REACH 1907/2006 Appendix XVII, No (mixture): 3

Regulation (EC) No 1223/2009

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): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

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

2,2'-ethylenedioxydiethyldimethacrylate

Methyl benzoylformate

SECTION 16: Other information**Changes**

Rev. 1,0; Initial release: 22.01.2025

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Abbreviations and acronyms

Flam. Liq: Flammable liquid
Asp. Tox: Aspiration hazard
Skin Irrit: Skin irritation
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of substances and mixtures
DNEL: Derived No Effect Level
d: day(s)
EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European List of Notified Chemical Substances
ECHA: European Chemicals Agency
EWC: European Waste Catalogue
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
h: hour
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
NLP: No-Longer Polymers
N/A: not applicable
OECD: Organisation for Economic Co-operation and Development
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
REACH: Registration, Evaluation, Authorisation of Chemicals
SVHC: substance of very high concern
TRGS: Technische Regeln für Gefahrstoffe
UN: United Nations
VOC: Volatile Organic Compounds
WGK: Water Hazard Class (Germany)

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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 Irrit. 2; H319 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |
| STOT SE 3; H335 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|------|-------------------------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| 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. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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