## Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** LOCTITE AA 3971 LIGHT CURE MED. DEV. ADH. known as LOCTITE® 3971™ LIGHT CURE ADHE

**Other means of identification:** LOCTITE AA 3971 PA15LEN
**Product code:** IDH1057609
**Recommended use of the chemical and restrictions on use**

**Intended use:** Ultraviolet adhesive
**Manufacturer/Importer/Distributor Representative Company**

Henkel Singapore Pte Ltd
Science Park Drive 1B
Units 09-31 to 09-35
119315 Singapore

Singapore

Phone: +65 (6266) 0100
Fax-no.: +65 (6266) 1161

**E-mail address of person responsible for Safety Data Sheet:** ap-ua-psra.sea@henkel.com

**Emergency Telephone for Chemical Accidents:** FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +65 6424 7016

## Section 2. Hazards identification

**GHS Classification:**

| Hazard Class | Hazard Category | Route of Exposure | Target organ |
|---|---|---|---|
| Acute toxicity | Category 4 | Oral | |
| Skin corrosion/irritation | Category 2 | | |
| Serious eye damage/eye irritation | Category 1 | | |
| Skin sensitizer | Category 1 | | |
| Toxic to reproduction | Category 1B | | |
| Specific target organ toxicity - single exposure | Category 3 | | respiratory tract irritation |
| Chronic hazards to the aquatic environment | Category 2 | | |

**GHS label elements:**

**Hazard pictogram:**



**Signal word:** Danger

| | |
|---|---|
| **Hazard statement:** | H302 Harmful if swallowed.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H335 May cause respiratory irritation.<br>H360 May damage fertility or the unborn child.<br>H411 Toxic to aquatic life with long lasting effects. |

**Precaution:**

| | |
|---|---|
| **Prevention:** | P201 Obtain special instructions before use.<br>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 Wash hands thoroughly after handling.<br>P270 Do not eat, drink or smoke when using this product.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection. |
| **Response:** | P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.<br>P302+P352 IF ON SKIN: Wash with plenty of water.<br>P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P308+P313 IF exposed or concerned: Get medical advice/attention.<br>P330 Rinse mouth.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse.<br>P391 Collect spillage. |
| **Storage:** | P403+P233 Store in a well-ventilated place. Keep container tightly closed. |
| **Disposal:** | P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |

## Section 3. Composition / information on ingredients

**Substance or Mixture:**
Mixture

**Declaration of hazardous chemical:**

| Hazard component CAS-No. | Content | GHS Classification |
|---|---|---|
| N,N-Dimethylacrylamide<br>2680-03-7 | 10- 30 % | Acute toxicity 3; Oral<br>H301<br>Acute toxicity 3; Dermal<br>H311<br>Serious eye damage/eye irritation 1<br>H318<br>Skin Sensitization 1B<br>H317 |
| Isobornyl acrylate<br>5888-33-5 | 10- 30 % | Skin Sensitization 1A<br>H317<br>Acute hazards to the aquatic environment 1<br>H400<br>Chronic hazards to the aquatic environment 1<br>H410 |
| Tetrahydrofurfuryl acrylate<br>2399-48-6 | 1- 10 % | Acute toxicity 4; Oral<br>H302<br>Skin corrosion 1C<br>H314<br>Skin Sensitization 1B<br>H317<br>Reproductive toxicant. 1B<br>H360<br>Chronic hazards to the aquatic environment 2<br>H411 |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and a,a',a''-1,2,3-propanetriyltris[w-hydroxypoly[oxy(methyl-1,2-ethanediyl)]]<br>73324-00-2 | 1- 10 % | Skin irritation 2<br>H315<br>Target Organ Systemic Toxicant - Single exposure 3<br>H335 |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | 1- 10 % | Acute toxicity 4; Oral<br>H302<br>Serious eye damage/eye irritation 1<br>H318<br>Target Organ Systemic Toxicant - Single exposure 3<br>H335 |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | 1- 10 % | Skin Sensitization 1B<br>H317<br>Reproductive toxicant. 1B<br>H360<br>Chronic hazards to the aquatic environment 2<br>H411 |
| 2-(2-Ethoxyethoxy)ethyl acrylate<br>7328-17-8 | 1- 10 % | Acute toxicity 4; Oral<br>H302<br>Acute toxicity 4; Dermal<br>H312<br>Skin irritation 2<br>H315<br>Serious eye irritation 2B<br>H320<br>Skin Sensitization 1A<br>H317 |
| 2-Propenoic acid, 2-carboxyethyl ester<br>24615-84-7 | 1- 10 % | Skin corrosion 1<br>H314<br>Serious eye damage/eye irritation 1<br>H318<br>Skin Sensitization 1<br>H317<br>Target Organ Systemic Toxicant - Single exposure 3<br>H335<br>Chronic hazards to the aquatic environment 2<br>H411 |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate<br>42978-66-5 | 1- 10 % | Skin irritation 2<br>H315<br>Serious eye irritation 2<br>H319<br>Skin Sensitization 1 |

| | | |
|---|---|---|
| | | H317<br>Target Organ Systemic Toxicant - Single exposure 3<br>H335<br>Chronic hazards to the aquatic environment 2<br>H411 |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | 1- 10 % | Serious eye damage/eye irritation 1<br>H318 |
| Acrylic acid<br>79-10-7 | 1- 10 % | Flammable liquids 3<br>H226<br>Acute toxicity 4; Oral<br>H302<br>Acute toxicity 4; Inhalation<br>H332<br>Acute toxicity 4; Dermal<br>H312<br>Skin corrosion 1A<br>H314<br>Serious eye damage/eye irritation 1<br>H318<br>Target Organ Systemic Toxicant - Single exposure 3<br>H335<br>Acute hazards to the aquatic environment 1<br>H400<br>Chronic hazards to the aquatic environment 2<br>H411 |
| 2-Hydroxyethyl acrylate<br>818-61-1 | 0.1- 1 % | Acute toxicity 4; Oral<br>H302<br>Acute toxicity 3; Dermal<br>H311<br>Skin corrosion 1B<br>H314<br>Skin Sensitization 1<br>H317<br>Acute hazards to the aquatic environment 1<br>H400 |
| Hydroquinone<br>123-31-9 | < 0.1 % | Acute toxicity 4; Oral<br>H302<br>Serious eye damage/eye irritation 1<br>H318<br>Skin Sensitization 1<br>H317<br>Germ cell mutagenicity 2<br>H341<br>Carcinogenicity 2<br>H351<br>Acute hazards to the aquatic environment 1<br>H400<br>Chronic hazards to the aquatic environment 1<br>H410 |

## Section 4. First aid measures

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.
Consideration should be given to the possible effects of a faulty UV source (Stray radiation, ozone).

**Skin contact:** Rinse with running water and soap.
Obtain medical attention if irritation persists.

**Eye contact:** Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

| | |
|---|---|
| **Ingestion:** | Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor. |
| **Indication of immediate medical attention and special treatment needed:** | See section: Description of first aid measures |

## Section 5. Fire fighting measures

| | |
|---|---|
| **Suitable extinguishing media:** | Carbon dioxide, foam, powder |
| **Specific hazards arising from the chemical:** | In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released. |
| **Special protection equipment and precautions for firefighters:** | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. |
| **Additional fire fighting advice:** | In case of fire, keep containers cool with water spray. |

## Section 6. Accidental release measures

| | |
|---|---|
| **Personal precautions:** | Avoid skin and eye contact.<br>Wear protective equipment.<br>Ensure adequate ventilation.<br>See advice in section 8 |
| **Environmental precautions:** | Do not empty into drains / surface water / ground water. |
| **Clean-up methods:** | For small spills wipe up with paper towel and place in container for disposal.<br>For large spills absorb onto inert absorbent material and place in sealed container for disposal.<br>Dispose of contaminated material as waste according to Section 13. |

## Section 7. Handling and storage

| | |
|---|---|
| **Handling:** | Use only in well-ventilated areas.<br>Avoid skin and eye contact.<br>Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation. |
| **Storage:** | Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product. |

## Section 8. Exposure controls / personal protection

**Components with specific control parameters for workplace:**

| | | |
|---|---|---|
| ACRYLIC ACID<br>79-10-7 | **Value type** | Time Weighted Average (TWA): |
| | **ppm** | 2 |
| | **Remarks** | ACGIH |
| ACRYLIC ACID<br>79-10-7 | **Value type** | Time Weighted Average (TWA): |
| | **ppm** | 2 |
| | **mg/m³** | 5.9 |
| | **Remarks** | SG OEL |
| ACRYLIC ACID<br>79-10-7 | **Value type** | Skin designation: |
| | **Remarks** | ACGIH Danger of cutaneous absorption |
| HYDROQUINONE<br>123-31-9 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 1 |
| | **Remarks** | ACGIH |
| HYDROQUINONE (DIHYDROXY BENZENE)<br>123-31-9 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 2 |
| | **Remarks** | SG OEL |

**Respiratory protection:**
Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A (EN 14387)

**Hand protection:**
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**
Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.
Protective eye equipment should conform to EN166.

**Body protection:**
Wear suitable protective clothing.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

**Engineering controls:**
Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

**General protection and hygiene measures:**
The workplace should be equipped with an emergency shower and eye-rinsing facility.

**Hygienic measures:**
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Take off contaminated clothing and wash before reuse.

## Section 9. Physical and chemical properties

| | |
|---|---|
| **Appearance:** | light yellow<br>liquid |
| **Odor:** | mild |
| **Odor threshold (CA):** | No data available. |
| **pH:** | 5.1 - 5.5 |
| **Melting point / freezing point:** | Not applicable, Product is a liquid |
| **Specific gravity:** | 1.0994 |
| **Boiling point:** | > 149 °C (> 300.2 °F)<br>Decomposes > 140°C (284°F). |
| **Flash point:**<br>(Pensky Martens closed cup) | 73.9 °C (165.02 °F) |
| **Evaporation rate:** | No data available. |
| **Flammability (solid, gas):** | No data available. |
| **Lower explosive limit:** | No data available. |
| **Upper explosive limit:** | No data available. |
| **Vapor pressure:**<br>(; 20 °C (68 °F)) | < 7 hPa |
| **Vapor density:** | > 1 |
| **Density:** | 1.0994 g/cm3 |
| **Solubility:** | Slight (20 °C) |
| **Partition coefficient: n-octanol/water:** | No data available. |
| **Auto ignition:** | No data available. |
| **Decomposition temperature:** | > 100 °C |
| **Viscosity:** | No data available. |
| **VOC content:**<br>(2010/75/EC) | < 3.00 % |

## Section 10. Stability and reactivity

| | |
|---|---|
| **Reactivity/Incompatible materials:** | Reaction with strong acids.<br>Reacts with strong oxidants. |
| **Chemical stability:** | Stable under recommended storage conditions. |
| **Conditions to avoid:** | No decomposition if used according to specifications. |
| **Hazardous decomposition products:** | carbon oxides. |

## Section 11. Toxicological information

| | |
|---|---|
| **Oral toxicity:** | Acute toxicity estimate (ATE) : 990.39 mg/kg<br>Method: Calculation method |
| **Inhalative toxicity:** | Acute toxicity estimate (ATE) : > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: Vapor.<br>Method: Calculation method |
| **Dermal toxicity:** | Acute toxicity estimate (ATE) : > 2,000 mg/kg<br>Method: Calculation method |

Symptoms of Overexposure**:** INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

SKIN: Redness, inflammation.
SKIN: Rash, Urticaria.
EYE: Irritation, conjunctivitis.
RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

**Acute oral toxicity:**

| | | |
|---|---|---|
| N,N-Dimethylacrylamide<br>2680-03-7 | Value type | LD50 |
| | Value | > 215 - 464 mg/kg |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| N,N-Dimethylacrylamide<br>2680-03-7 | Value type | Acute toxicity estimate (ATE) |
| | Value | 216 mg/kg |
| | Species | |
| | Method | Expert judgement |
| Isobornyl acrylate<br>5888-33-5 | Value type | LD50 |
| | Value | 4,350 mg/kg |
| | Species | rat |
| | Method | not specified |
| Tetrahydrofurfuryl acrylate<br>2399-48-6 | Value type | LD50 |
| | Value | 928 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 401 (Acute Oral Toxicity) |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Value type | LD50 |
| | Value | 1,500 mg/kg |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Value type | LD50 |
| | Value | > 5,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 401 (Acute Oral Toxicity) |
| 2-(2-Ethoxyethoxy)ethyl acrylate<br>7328-17-8 | Value type | LD50 |
| | Value | 1,106 mg/kg |
| | Species | rat |
| | Method | BASF Test |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate<br>42978-66-5 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 423 (Acute Oral toxicity) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | Value type | LD50 |
| | Value | 8,025 mg/kg |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Acrylic acid<br>79-10-7 | Value type | LD50 |
| | Value | 1,500 mg/kg |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| 2-Hydroxyethyl acrylate<br>818-61-1 | Value type | LD50 |
| | Value | 540 mg/kg |
| | Species | rat |
| | Method | not specified |
| Hydroquinone<br>123-31-9 | Value type | LD50 |
| | Value | 367 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 401 (Acute Oral Toxicity) |

**Acute inhalative toxicity:**

| | | |
|---|---|---|
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Value type | LC50 |
| | Value | > 5.1 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | Value type | LC50 |
| | Value | > 5.3 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| Acrylic acid<br>79-10-7 | Value type | LC0 |
| | Value | 5.1 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| Acrylic acid<br>79-10-7 | Value type | Acute toxicity estimate (ATE) |
| | Value | 11 mg/l |
| | Exposure time | |
| | Species | |
| | Method | Expert judgement |

**Acute dermal toxicity:**

| | | |
|---|---|---|
| N,N-Dimethylacrylamide<br>2680-03-7 | Value type | LD50 |
| | Value | 500 mg/kg |
| | Species | rat |
| | Method | not specified |
| Isobornyl acrylate<br>5888-33-5 | Value type | LD50 |
| | Value | > 3,000 mg/kg |
| | Species | rabbit |
| | Method | not specified |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rabbit |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2-(2-Ethoxyethoxy)ethyl acrylate<br>7328-17-8 | Value type | LD50 |
| | Value | > 1,000 - < 2,000 mg/kg |
| | Species | rabbit |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2-(2-Ethoxyethoxy)ethyl acrylate<br>7328-17-8 | Value type | Acute toxicity estimate (ATE) |
| | Value | 1,001 mg/kg |
| | Species | |
| | Method | Expert judgement |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate<br>42978-66-5 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rabbit |
| | Method | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | Value type | LD50 |
| | Value | 4,250 mg/kg |
| | Species | rabbit |
| | Method | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Acrylic acid<br>79-10-7 | Value type | Acute toxicity estimate (ATE) |
| | Value | 1,100 mg/kg |
| | Species | |
| | Method | Expert judgement |

| | | |
|---|---|---|
| Hydroquinone<br>123-31-9 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rabbit |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |

**Skin corrosion/irritation:**

| | | |
|---|---|---|
| N,N-Dimethylacrylamide<br>2680-03-7 | Result | not irritating |
| | Exposure time | 24 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Isobornyl acrylate<br>5888-33-5 | Result | not irritating |
| | Exposure time | 24 h |
| | Species | rabbit |
| | Method | other guideline: |
| Tetrahydrofurfuryl acrylate<br>2399-48-6 | Result | corrosive |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Result | slightly irritating |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Result | not irritating |
| | Exposure time | 24 h |
| | Species | rabbit |
| | Method | not specified |
| 2-(2-Ethoxyethoxy)ethyl acrylate<br>7328-17-8 | Result | irritating |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 2-Propenoic acid, 2-carboxyethyl ester<br>24615-84-7 | Result | corrosive |
| | Exposure time | 24 h |
| | Species | rabbit |
| | Method | not specified |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate<br>42978-66-5 | Result | irritating |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | Result | not irritating |
| | Exposure time | 24 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Acrylic acid<br>79-10-7 | Result | Sub-Category 1A (corrosive) |
| | Exposure time | 3 min |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Hydroquinone<br>123-31-9 | Result | not irritating |
| | Exposure time | 24 h |
| | Species | rabbit |
| | Method | Weight of evidence |

**Serious eye damage/irritation:**

| | | |
|---|---|---|
| N,N-Dimethylacrylamide<br>2680-03-7 | Result | irritating or corrosive |
| | Exposure time | |
| | Species | rabbit |
| | Method | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| N,N-Dimethylacrylamide<br>2680-03-7 | Result | corrosive |
| | Exposure time | |
| | Species | Bovine, cornea, in vitro test |
| | Method | OECD Guideline 437 (BCOP) |
| Isobornyl acrylate<br>5888-33-5 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | other guideline: |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Result | Category 1 (irreversible effects on the eye) |
| | Exposure time | |
| | Species | rabbit |
| | Method | BASF Test |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | not specified |
| 2-(2-Ethoxyethoxy)ethyl acrylate<br>7328-17-8 | Result | Category 2B (mildly irritating to eyes) |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate<br>42978-66-5 | Result | moderately irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | Result | corrosive |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Acrylic acid<br>79-10-7 | Result | Category 1 (irreversible effects on the eye) |
| | Exposure time | |
| | Species | rabbit |
| | Method | BASF Test |
| Hydroquinone<br>123-31-9 | Result | corrosive |
| | Exposure time | |
| | Species | human |
| | Method | Weight of evidence |

**Respiratory or skin sensitization:**

| | | |
|---|---|---|
| N,N-Dimethylacrylamide<br>2680-03-7 | Result | Sub-Category 1B (sensitising) |
| | Test type | |
| | Species | |
| | Method | Weight of evidence |
| N,N-Dimethylacrylamide<br>2680-03-7 | Result | positive |
| | Test type | Patch-Test |
| | Species | human |
| | Method | Patch Test |
| N,N-Dimethylacrylamide<br>2680-03-7 | Result | positive |
| | Test type | Direct peptide reactivity assay (DPRA) |
| | Species | cysteine and lysine, in chemico test |
| | Method | OECD Guideline 442C (Direct Peptide Reactivity Assay (DPRA)) |
| N,N-Dimethylacrylamide<br>2680-03-7 | Result | positive |
| | Test type | Activation of keratinocytes |
| | Species | human keratinocytes, in vitro test |
| | Method | OECD Guideline 442D (ARE-Nrf2 Luciferase Test Method) |
| Isobornyl acrylate<br>5888-33-5 | Result | sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Tetrahydrofurfuryl acrylate<br>2399-48-6 | Result | sensitising |
| | Test type | other: |
| | Species | human |
| | Method | Expert judgement |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Result | not sensitising |
| | Test type | Freund's complete adjuvant test |
| | Species | guinea pig |
| | Method | Klecak Method |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Result | not sensitising |
| | Test type | Split adjuvant test |
| | Species | guinea pig |
| | Method | Maguire Method |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Result | sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| 2-(2-Ethoxyethoxy)ethyl acrylate<br>7328-17-8 | Result | Sub-Category 1A (sensitising) |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| 2-Propenoic acid, 2-carboxyethyl ester<br>24615-84-7 | Result | sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate<br>42978-66-5 | Result | sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | not specified |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | Result | not sensitising |
| | Test type | Buehler test |
| | Species | guinea pig |
| | Method | OECD Guideline 406 (Skin Sensitisation) |
| Acrylic acid<br>79-10-7 | Result | not sensitising |
| | Test type | Freund's complete adjuvant test |
| | Species | guinea pig |
| | Method | Klecak Method |
| Acrylic acid<br>79-10-7 | Result | not sensitising |
| | Test type | Split adjuvant test |
| | Species | guinea pig |
| | Method | Maguire Method |
| 2-Hydroxyethyl acrylate<br>818-61-1 | Result | sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | not specified |
| Hydroquinone<br>123-31-9 | Result | sensitising |
| | Test type | Guinea pig maximisation test |

| | | |
|---|---|---|
| | Species | guinea pig |
| | Method | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| Hydroquinone<br>123-31-9 | Result | sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

**Germ cell mutagenicity:**

| | | |
|---|---|---|
| N,N-Dimethylacrylamide<br>2680-03-7 | Result | negative |
| | Type of study / Route of administration | |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| N,N-Dimethylacrylamide<br>2680-03-7 | Result | negative |
| | Type of study / Route of administration | |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| N,N-Dimethylacrylamide<br>2680-03-7 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Isobornyl acrylate<br>5888-33-5 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Isobornyl acrylate<br>5888-33-5 | Result | negative |
| | Type of study / Route of administration | mammalian cell gene mutation assay |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Isobornyl acrylate<br>5888-33-5 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian cell micronucleus test |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| Tetrahydrofurfuryl acrylate<br>2399-48-6 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Tetrahydrofurfuryl acrylate<br>2399-48-6 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian chromosome aberration test |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| Tetrahydrofurfuryl acrylate<br>2399-48-6 | Result | negative |
| | Type of study / Route of administration | mammalian cell gene mutation assay |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian chromosome aberration test |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Result | negative |
| | Type of study / Route of administration | mammalian cell gene mutation assay |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |

| | | |
|---|---|---|
| 75980-60-8 | Method | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian chromosome aberration test |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Result | negative |
| | Type of study / Route of administration | mammalian cell gene mutation assay |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate<br>42978-66-5 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate<br>42978-66-5 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate<br>42978-66-5 | Result | negative |
| | Type of study / Route of administration | intraperitoneal |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | Result | A mutagenic potential can not be excluded. |
| | Type of study / Route of administration | mammalian cell gene mutation assay |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | Result | A mutagenic potential can not be excluded. |
| | Type of study / Route of administration | |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Acrylic acid<br>79-10-7 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Acrylic acid<br>79-10-7 | Result | negative |
| | Type of study / Route of administration | mammalian cell gene mutation assay |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Acrylic acid<br>79-10-7 | Result | negative |
| | Type of study / Route of administration | DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro |
| | Metabolic activation / Exposure time | without |
| | Method | equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells |
| Acrylic acid<br>79-10-7 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| Acrylic acid<br>79-10-7 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | not specified |
| 2-Hydroxyethyl acrylate<br>818-61-1 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | not specified |
| 2-Hydroxyethyl acrylate | Result | negative |

| | | |
|---|---|---|
| 818-61-1 | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Hydroquinone 123-31-9 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Hydroquinone 123-31-9 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian chromosome aberration test |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Hydroquinone 123-31-9 | Result | positive |
| | Type of study / Route of administration | mammalian cell gene mutation assay |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Hydroquinone 123-31-9 | Result | positive |
| | Type of study / Route of administration | intraperitoneal |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Hydroquinone 123-31-9 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) |
| Hydroquinone 123-31-9 | Result | positive |
| | Type of study / Route of administration | intraperitoneal |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | equivalent or similar to OECD Guideline 483 (Mammalian Spermatogonial Chromosome Aberration Test) |

**Repeated dose toxicity:**

| | | |
|---|---|---|
| N,N-Dimethylacrylamide<br>2680-03-7 | Result | NOAEL=10 mg/kg |
| | Route of application | dermal |
| | Exposure time / Frequency of treatment | 13 weeks6 hours/day, 7 days/week |
| | Species | rat |
| | Method | OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
| Isobornyl acrylate<br>5888-33-5 | Result | NOAEL=100 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | once daily |
| | Species | rat |
| | Method | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | Result | NOAEL=40 mg/kg |
| | Route of application | oral: drinking water |
| | Exposure time / Frequency of treatment | 12 mdaily |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Result | NOAEL=100 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | 3 m5 d/w |
| | Species | rat |
| | Method | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate<br>42978-66-5 | Result | NOAEL=250 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | 28 - 52 ddaily |
| | Species | rat |
| | Method | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | Result | NOAEL=1,000 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | 28 d5 d / week |
| | Species | rat |
| | Method | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | Result | NOAEL=0.225 mg/l |
| | Route of application | inhalation: aerosol |
| | Exposure time / Frequency of treatment | 14 d6 h / d, 4/5 exposures/week |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day) |
| Acrylic acid<br>79-10-7 | Result | NOAEL=40 mg/kg |
| | Route of application | oral: drinking water |
| | Exposure time / Frequency of treatment | 12 mdaily |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies) |
| Acrylic acid<br>79-10-7 | Result | NOAEL=0.015 mg/l |
| | Route of application | inhalation: vapour |
| | Exposure time / Frequency of treatment | 90 d6 h/d, 5 d/w |
| | Species | mouse |
| | Method | equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) |
| Hydroquinone<br>123-31-9 | Result | NOAEL=50 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | 13 w5 d/w |
| | Species | rat |
| | Method | not specified |
| Hydroquinone<br>123-31-9 | Result | NOAEL=73.9 mg/kg |
| | Route of application | dermal |
| | Exposure time / Frequency of treatment | 13 w6 h/d, 5 d/w |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |

## Section 12. Ecological information

**General ecological information:** Do not empty into drains / surface water / ground water.

**Ecotoxicity:** H411 Toxic to aquatic life with long lasting effects.

**Toxicity:**

| | | |
|---|---|---|
| N,N-Dimethylacrylamide 2680-03-7 | Value type | LC50 |
| | Value | > 120 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oncorhynchus mykiss |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| N,N-Dimethylacrylamide 2680-03-7 | Value type | EC50 |
| | Value | > 120 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| N,N-Dimethylacrylamide 2680-03-7 | Value type | EC50 |
| | Value | > 400 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | NOEC |
| | Value | 50 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N,N-Dimethylacrylamide 2680-03-7 | Value type | EC50 |
| | Value | > 1,000 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 3 h |
| | Species | activated sludge, domestic |
| | Method | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Isobornyl acrylate 5888-33-5 | Value type | LC50 |
| | Value | 0.704 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Danio rerio |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Isobornyl acrylate 5888-33-5 | Value type | EC50 |
| | Value | 1 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Isobornyl acrylate 5888-33-5 | Value type | NOEC |
| | Value | 0.405 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | EC50 |
| | Value | 1.98 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |

| | | |
|---|---|---|
| Tetrahydrofurfuryl acrylate 2399-48-6 | Value type | LC50 |
| | Value | 7.32 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Danio rerio |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Tetrahydrofurfuryl acrylate 2399-48-6 | Value type | EC50 |
| | Value | 37.7 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Tetrahydrofurfuryl acrylate 2399-48-6 | Value type | EC50 |
| | Value | 3.92 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | EC10 |
| | Value | 2.48 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Tetrahydrofurfuryl acrylate 2399-48-6 | Value type | EC50 |
| | Value | 263.7 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 3 h |
| | Species | activated sludge of a predominantly domestic sewage |
| | Method | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 2-Propenoic acid, homopolymer (oligomers) 9003-01-4 | Value type | LC50 |
| | Value | 27 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oncorhynchus mykiss |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| | Value type | NOEC |
| | Value | > 10.1 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 45 d |
| | Species | Oryzias latipes |
| | Method | OECD Guideline 210 (fish early lite stage toxicity test) |
| 2-Propenoic acid, homopolymer (oligomers) 9003-01-4 | Value type | EC50 |
| | Value | 47 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 2-Propenoic acid, homopolymer (oligomers) 9003-01-4 | Value type | EC50 |
| | Value | 18 mg/lca. |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | EC10 |
| | Value | 4 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2-Propenoic acid, homopolymer (oligomers) 9003-01-4 | Value type | EC20 |
| | Value | 900 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 30 min |
| | Species | activated sludge, domestic |
| | Method | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Value type | LC50 |
| | Value | 1.4 mg/l |

| | | |
|---|---|---|
| 75980-60-8 | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Cyprinus carpio |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | Value type | EC50 |
| | Value | 3.53 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | Value type | EC50 |
| | Value | > 2.01 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | EC10 |
| | Value | 1.56 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | Value type | EC 50 |
| | Value | > 1,000 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 30 min |
| | Species | |
| | Method | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 2-(2-Ethoxyethoxy)ethyl acrylate 7328-17-8 | Value type | LC50 |
| | Value | > 10 - 22 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Leuciscus idus |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 2-(2-Ethoxyethoxy)ethyl acrylate 7328-17-8 | Value type | EC50 |
| | Value | 90 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 2-(2-Ethoxyethoxy)ethyl acrylate 7328-17-8 | Value type | EC50 |
| | Value | > 3.2 - < 10 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | NOEC |
| | Value | > 0.1 - 1 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2-(2-Ethoxyethoxy)ethyl acrylate 7328-17-8 | Value type | EC10 |
| | Value | 1,800 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 17 h |
| | Species | |
| | Method | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test) |
| | Value type | EC50 |
| | Value | 770 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 3 h |
| | Species | activated sludge, domestic |
| | Method | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 2-Propenoic acid, 2-carboxyethyl ester 24615-84-7 | Value type | EC50 |
| | Value | > 1.71 - 3.55 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |

| | | |
|---|---|---|
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate 42978-66-5 | Value type | LC50 |
| | Value | > 4.5 - 10 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Leuciscus idus |
| | Method | DIN 38412-15 |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate 42978-66-5 | Value type | EC50 |
| | Value | 88.7 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate 42978-66-5 | Value type | EC50 |
| | Value | 28 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate 42978-66-5 | Value type | EC 50 |
| | Value | > 10,000 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 30 min |
| | Species | |
| | Method | not specified |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane 2530-83-8 | Value type | LC50 |
| | Value | 55 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Cyprinus carpio |
| | Method | EU Method C.1 (Acute Toxicity for Fish) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane 2530-83-8 | Value type | EC50 |
| | Value | 324 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Simocephalus vetulus |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane 2530-83-8 | Value type | EC50 |
| | Value | 350 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 96 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | NOEC |
| | Value | 130 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 96 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane 2530-83-8 | Value type | EC50 |
| | Value | > 100 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 3 h |
| | Species | activated sludge of a predominantly domestic sewage |
| | Method | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Acrylic acid 79-10-7 | Value type | LC50 |
| | Value | 27 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Salmo gairdneri (new name: Oncorhynchus mykiss) |
| | Method | EPA OTS 797.1400 (Fish Acute Toxicity Test) |
| | Value type | NOEC |
| | Value | >= 10.1 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 45 d |
| | Species | Oryzias latipes |
| | Method | OECD Guideline 210 (fish early lite stage toxicity test) |
| Acrylic acid 79-10-7 | Value type | EC50 |
| | Value | 95 mg/l |

| | | |
|---|---|---|
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| Acrylic acid 79-10-7 | Value type | EC10 |
| | Value | 0.03 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) |
| | Method | EU Method C.3 (Algal Inhibition test) |
| | Value type | EC50 |
| | Value | 0.13 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) |
| | Method | EU Method C.3 (Algal Inhibition test) |
| Acrylic acid 79-10-7 | Value type | EC20 |
| | Value | 900 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 30 min |
| | Species | activated sludge, domestic |
| | Method | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |
| 2-Hydroxyethyl acrylate 818-61-1 | Value type | LC50 |
| | Value | 4.8 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Pimephales promelas |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 2-Hydroxyethyl acrylate 818-61-1 | Value type | EC50 |
| | Value | 9.3 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 2-Hydroxyethyl acrylate 818-61-1 | Value type | EC50 |
| | Value | 6 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | NOEC |
| | Value | 1 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2-Hydroxyethyl acrylate 818-61-1 | Value type | EC10 |
| | Value | > 100 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 72 h |
| | Species | activated sludge, domestic |
| | Method | other guideline: |
| Hydroquinone 123-31-9 | Value type | LC50 |
| | Value | 0.638 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oncorhynchus mykiss |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| | Value type | NOEC |
| | Value | 0.066 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 32 d |
| | Species | Pimephales promelas |
| | Method | OECD Guideline 210 (fish early lite stage toxicity test) |
| Hydroquinone 123-31-9 | Value type | EC50 |
| | Value | 0.134 mg/l |
| | Acute Toxicity Study | Daphnia |

| | | |
|---|---|---|
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydroquinone 123-31-9 | Value type | EC50 |
| | Value | 0.330 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | NOEC |
| | Value | 0.019 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydroquinone 123-31-9 | Value type | EC 50 |
| | Value | 71 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 2 h |
| | Species | activated sludge of a predominantly domestic sewage |
| | Method | other guideline: |

**Persistence and degradability:**

| | | |
|---|---|---|
| N,N-Dimethylacrylamide 2680-03-7 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 0 % |
| | Method | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| Isobornyl acrylate 5888-33-5 | Result | inherently biodegradable |
| | Route of application | aerobic |
| | Degradability | 73.9 % |
| | Method | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 57 % |
| | Method | OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test) |
| Tetrahydrofurfuryl acrylate 2399-48-6 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 77.7 % |
| | Method | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| 2-Propenoic acid, homopolymer (oligomers) 9003-01-4 | Result | readily biodegradable |
| | Route of application | aerobic |
| | Degradability | 87.4 % |
| | Method | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| | Result | inherently biodegradable |
| | Route of application | aerobic |
| | Degradability | 100 % |
| | Method | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 0 - 10 % |
| | Method | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| 2-(2-Ethoxyethoxy)ethyl acrylate 7328-17-8 | Result | |
| | Route of application | no data |
| | Degradability | > 70 % |
| | Method | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| | Result | readily biodegradable |
| | Route of application | aerobic |
| | Degradability | 98 % |
| | Method | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |

| | | |
|---|---|---|
| 2-Propenoic acid, 2-carboxyethyl ester<br>24615-84-7 | Result | not readily biodegradable. |
| | Route of application | not specified |
| | Degradability | > 0 - 60 % |
| | Method | OECD 301 A - F |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate<br>42978-66-5 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 48 % |
| | Method | EU Method C.4-C (Determination of the "Ready" BiodegradabilityCarbon Dioxide Evolution Test) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 37 % |
| | Method | EU Method C.4-A (Determination of the "Ready" BiodegradabilityDissolved Organic Carbon (DOC) Die-Away Test) |
| Acrylic acid<br>79-10-7 | Result | inherently biodegradable |
| | Route of application | aerobic |
| | Degradability | 100 % |
| | Method | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| | Result | readily biodegradable |
| | Route of application | aerobic |
| | Degradability | 81 % |
| | Method | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| 2-Hydroxyethyl acrylate<br>818-61-1 | Result | readily biodegradable |
| | Route of application | aerobic |
| | Degradability | > 79 - 80 % |
| | Method | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| Hydroquinone<br>123-31-9 | Result | readily biodegradable |
| | Route of application | aerobic |
| | Degradability | > 75 - 81 % |
| | Method | EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test) |

**Bioaccumulative potential / Mobility in soil:**

| | | |
|---|---|---|
| N,N-Dimethylacrylamide<br>2680-03-7 | LogPow | < 0.3 |
| | Temperature | 23 °C |
| | Method | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Isobornyl acrylate<br>5888-33-5 | Bioconcentration factor (BCF) | 37 |
| | Exposure time | 56 h |
| | Species | Danio rerio |
| | Temperature | 24 °C |
| | Method | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |
| Isobornyl acrylate<br>5888-33-5 | LogPow | 4.52 |
| | Temperature | |
| | Method | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Tetrahydrofurfuryl acrylate<br>2399-48-6 | LogPow | 0.81 |
| | Temperature | 21.7 °C |
| | Method | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| 2-Propenoic acid, homopolymer (oligomers)<br>9003-01-4 | LogPow | 0.23 |
| | Temperature | |
| | Method | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | LogPow | 3.1 |
| | Temperature | 23 °C |
| | Method | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| 2-(2-Ethoxyethoxy)ethyl acrylate<br>7328-17-8 | LogPow | 1.2 |
| | Temperature | 23 °C |
| | Method | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| 2-Propenoic acid, 2-carboxyethyl ester<br>24615-84-7 | LogPow | 0.46 |
| | Temperature | |
| | Method | |
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1- | LogPow | < 4 |
| | Temperature | |

| | | |
|---|---|---|
| ethanediyl)] diacrylate<br>42978-66-5 | Method | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | LogPow | 0.5 |
| | Temperature | 20 °C |
| | Method | QSAR (Quantitative Structure Activity Relationship) |
| Acrylic acid<br>79-10-7 | Bioconcentration factor (BCF) | 3.16 |
| | Exposure time | |
| | Species | |
| | Temperature | |
| | Method | QSAR (Quantitative Structure Activity Relationship) |
| Acrylic acid<br>79-10-7 | LogPow | 0.46 |
| | Temperature | 25 °C |
| | Method | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| 2-Hydroxyethyl acrylate<br>818-61-1 | LogPow | -0.17 |
| | Temperature | 25 °C |
| | Method | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Hydroquinone<br>123-31-9 | LogPow | 0.59 |
| | Temperature | |
| | Method | EU Method A.8 (Partition Coefficient) |

## Section 13. Disposal considerations

**Product**

**Method of disposal:** Dispose of in accordance with local and national regulations.

**Packaging**

**Disposal of uncleaned packages:** Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

## Section 14. Transport information

**Road transport ADR:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Classification code: | M6 |
| Hazard ident. number: | 90 |
| UN no.: | 3082 |
| Label: | 9 |
| Technical name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate,2-Carboxyethyl acrylate) |

**Railroad transport RID:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Classification code: | M6 |
| Hazard ident. number: | 90 |
| UN no.: | 3082 |
| Label: | 9 |
| Technical name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate,2-Carboxyethyl acrylate) |

**Inland water transport ADN:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Classification code: | M6 |
| Hazard ident. number: | 90 |
| UN no.: | 3082 |
| Label: | 9 |
| Technical name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate,2-Carboxyethyl acrylate) |

**Marine transport IMDG:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| UN no.: | 3082 |
| Label: | 9 |
| EmS: | F-A ,S-F |
| Seawater pollutant: | Marine pollutant |
| Proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate,2-Carboxyethyl acrylate) |

**Air transport IATA:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Packaging instructions (passenger): | 964 |
| Packaging instructions (cargo): | 964 |
| UN no.: | 3082 |
| Label: | 9 |
| Proper shipping name: | Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate,2-Carboxyethyl acrylate) |

**Further information for transport:**

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG), NZ 4.3(10) may be applied, which can result in a deviation from the transport classification for packed goods.

## Section 15. Regulatory information

**Regulatory Information:** Workplace Safety And Health Act (Chapter 354A, Section 40B) Workplace Safety And Health (Approved Codes of Practice) Notification 2020.
Workplace Safety And Health Act (Chapter 354A, Section 65) Workplace Safety And Health (General Provisions) (Amendment No.2) Regulations 2024

**Global inventory status:**

| Regulatory list | Notification |
|---|---|
| TSCA | yes |
| DSL | yes |
| KECI (KR) | yes |
| IECSC | yes |
| AIIC | yes |
| TCSI | yes |

## Section 16. Other information

**Disclaimer:**

This Safety Data Sheet has been generated based on Workplace Safety And Health Act (Chapter 354A, Section 40B) Workplace Safety And Health (Approved Codes of Practice) Notification 2020 and Workplace Safety And Health Act (Chapter 354A, Section 65) Workplace Safety And Health (General Provisions) (Amendment No.2) Regulations 2024 only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.
Dear Customer,
Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your_company.com).