

SAFETY DATA SHEET



WEICONLOCK AN 306-03

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

1.1 Product identifier

Product name : WEICONLOCK AN 306-03
UFI : R8W0-P0UN-K000-FRPX
Product code : 306030
Color : Green.
Product description : Adhesives-Anaerobic
Product type : Liquid.
Other means of identification : Not available.

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

Identified uses

Adhesives-Anaerobic

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

WEICON GmbH & Co. KG
Königsberger Str. 255,
48157 Münster, Germany
phone:+49 251 93220,
email: info@weicon.de,
URL: www.weicon.de

e-mail address of person responsible for this SDS : msds@weicon.de

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : EMERGENCY CONTACT – UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

SECTION 2: Hazards identification

Hazard pictograms

:



Signal word

: Danger

Hazard statements

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

Precautionary statements

General

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.

Prevention

: P261 - Avoid breathing vapor.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves. Wear eye or face protection.

Response

: P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage

: P405 - Store locked up.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal

: P501 - Dispose of waste according to applicable legislation.

Hazardous ingredients

: 2-hydroxyethyl methacrylate; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate; (2,4,6-trioxo-1,3,5-triazine-1,3,5-(2H,4H,6H)-triylo)tri-2,1-ethanediyl triacrylate; α,α -dimethylbenzyl hydroperoxide; acrylic acid and ethylene dimethacrylate

Supplemental label elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|---|---|-----------------------|---|---|---------|
| Poly(oxy-1,2-ethanediyl), α , α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propen-1-yl)oxy]- | REACH #: 01-2119980659-17 EC: 609-946-4 CAS: 41637-38-1 | ≥ 25 - ≤ 50 | Aquatic Chronic 4, H413 | - | [1] |
| 2-hydroxyethyl methacrylate | REACH #: 01-2119490169-29 EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X | ≥ 10 - ≤ 25 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 | - | [1] [2] |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | REACH #: 01-2119886505-27 EC: 231-403-1 CAS: 7534-94-3 | ≥ 10 - ≤ 18 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411 | STOT SE 3, H335: C $\geq 10\%$ | [1] |
| (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate | EC: 254-843-6 CAS: 40220-08-4 | ≥ 3 - ≤ 3.7 | Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | - | [1] |
| α , α -dimethylbenzyl hydroperoxide | REACH #: 01-2119475796-19 EC: 201-254-7 CAS: 80-15-9 Index: 617-002-00-8 | ≥ 1 - < 2.5 | Org. Perox. E, H242 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 2, H411 | ATE [Oral] = 800 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: C $\geq 10\%$ Skin Irrit. 2, H315: 3% \leq C $< 10\%$ Eye Dam. 1, H318: C $\geq 3\%$ Eye Irrit. 2, H319: 1% \leq C $< 3\%$ STOT SE 3, H335: C $\geq 1\%$ STOT RE 2, H373: C $\geq 3\%$ | [1] |
| acrylic acid | REACH #: 01-2119452449-31 EC: 201-177-9 CAS: 79-10-7 Index: 607-061-00-8 | ≥ 1 - ≤ 3 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 | ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l STOT SE 3, H335: C $\geq 1\%$ M [Acute] = 1 | [1] [2] |
| ethanediol | REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1 | ≥ 0.3 - < 1 | Acute Tox. 4, H302 | ATE [Oral] = 500 mg/kg | [1] [2] |

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SECTION 3: Composition/information on ingredients

| | | | | | |
|-------------------------|--|-----------|--|-----------------------------|---------|
| ethylene dimethacrylate | REACH #: 01-2119965172-38 EC: 202-617-2 CAS: 97-90-5 Index: 607-114-00-5 | ≥0.3 - <1 | Skin Sens. 1, H317 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above. | STOT SE 3, H335: C ≥ 10% | [1] [2] |
|-------------------------|--|-----------|--|-----------------------------|---------|

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

SECTION 4: First aid measures

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SECTION 6: Accidental release measures

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---|--|
| 2-hydroxyethyl methacrylate acrylic acid | <p>DFG MAC-values list (Germany, 7/2024) Skin sensitizer.</p> <p>DFG MAC-values list (Germany, 7/2024) Develop C.</p> <p>TWA 8 hours: 30 mg/m³.</p> <p>TWA 8 hours: 10 ppm.</p> <p>PEAK 15 minutes: 10 ppm 4 times per shift [Interval: 1 hour].</p> <p>PEAK 15 minutes: 30 mg/m³ 4 times per shift [Interval: 1 hour].</p> <p>TRGS 900 OEL (Germany, 3/2025) Absorbed through skin.</p> <p>TWA 8 hours: 30 mg/m³.</p> <p>PEAK 15 minutes: 30 mg/m³.</p> <p>TWA 8 hours: 10 ppm.</p> <p>PEAK 15 minutes: 10 ppm.</p> <p>CEIL: 60 mg/m³.</p> <p>CEIL: 20 ppm.</p> <p>EU OEL (Europe, 1/2022)</p> <p>STEL 15 minutes: 20 ppm.</p> <p>STEL 15 minutes: 59 mg/m³.</p> <p>TWA 8 hours: 10 ppm.</p> <p>TWA 8 hours: 29 mg/m³.</p> |
| ethanediol | <p>DFG MAC-values list (Germany, 7/2024) Develop C. Absorbed through skin.</p> <p>TWA 8 hours: 10 ppm.</p> <p>PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour].</p> <p>TWA 8 hours: 26 mg/m³.</p> <p>PEAK 15 minutes: 52 mg/m³ 4 times per shift [Interval: 1 hour].</p> <p>TRGS 900 OEL (Germany, 3/2025) Absorbed through skin.</p> <p>TWA 8 hours: 26 mg/m³.</p> <p>PEAK 15 minutes: 52 mg/m³.</p> <p>TWA 8 hours: 10 ppm.</p> <p>PEAK 15 minutes: 20 ppm.</p> <p>EU OEL (Europe, 1/2022) Absorbed through skin.</p> <p>TWA 8 hours: 20 ppm.</p> <p>TWA 8 hours: 52 mg/m³.</p> <p>STEL 15 minutes: 40 ppm.</p> <p>STEL 15 minutes: 104 mg/m³.</p> |
| ethylene dimethacrylate | <p>DFG MAC-values list (Germany, 7/2024) Skin sensitizer.</p> |

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name

Result

SECTION 8: Exposure controls/personal protection

2-hydroxyethyl methacrylate

DNEL - General population - Long term - Oral

0.83 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

0.83 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

1.39 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

1.45 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

4.9 mg/m³

Effects: Systemic

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

DNEL - General population - Long term - Oral

0.21 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

0.21 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

0.35 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

0.36 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

1.22 mg/m³

Effects: Systemic

(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triyloxy)tri-2,1-ethanediyloxy triacrylate

DNEL - General population - Long term - Oral

0.083 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

0.29 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

0.83 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

1.65 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

2.3 mg/kg bw/day

Effects: Systemic

α,α-dimethylbenzyl hydroperoxide

DNEL - Workers - Long term - Inhalation

6 mg/m³

Effects: Systemic

SECTION 8: Exposure controls/personal protection

acrylic acid

DNEL - General population - Short term - Inhalation
3.6 mg/m³
Effects: Systemic

DNEL - General population - Long term - Oral
0.4 mg/kg bw/day
Effects: Systemic

DNEL - General population - Short term - Oral
1.2 mg/kg bw/day
Effects: Systemic

DNEL - General population - Short term - Inhalation
3.6 mg/m³
Effects: Local

DNEL - General population - Long term - Inhalation
3.6 mg/m³
Effects: Local

DNEL - General population - Long term - Inhalation
3.6 mg/m³
Effects: Systemic

DNEL - Workers - Short term - Inhalation
30 mg/m³
Effects: Local

DNEL - Workers - Long term - Inhalation
30 mg/m³
Effects: Local

DNEL - Workers - Short term - Inhalation
30 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation
30 mg/m³
Effects: Systemic

ethanediol

DNEL - General population - Long term - Inhalation
7 mg/m³
Effects: Local

DNEL - Workers - Long term - Inhalation
35 mg/m³
Effects: Local

DNEL - General population - Long term - Dermal
53 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Dermal
106 mg/kg bw/day
Effects: Systemic

ethylene dimethacrylate

DNEL - General population - Long term - Oral
0.83 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Dermal
0.83 mg/kg bw/day

SECTION 8: Exposure controls/personal protection

Effects: Systemic

DNEL - Workers - Long term - Dermal

1.3 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

1.45 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

2.45 mg/m³

Effects: Systemic

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III ; 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter

SECTION 8: Exposure controls/personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : Green.
- Odor** : Acetic acid.
- Odor threshold** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : Not available.
- Flammability** : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Slightly flammable in the presence of the following materials or conditions: heat.
- Lower and upper explosion limit** : Not available.
- Flash point** : Closed cup: >100°C (>212°F)
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- pH** : Not applicable.
- Viscosity** : Dynamic (room temperature): 150 mPa·s
Kinematic (room temperature): Not available.
Kinematic (40°C): Not available.
- Solubility** :
Not available.
- Solubility in water** : Not available.
- Partition coefficient n-octanol/water (log Pow)** : Not applicable.
- Vapor pressure** :

| Ingredient name | Vapor Pressure at 20°C | | | Vapor pressure at 50°C | | |
|---|------------------------|--------|----------|------------------------|-----|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| acrylic acid | 2.85024 | 0.38 | | | | |
| ethanediol | 0.09226 | 0.012 | | | | |
| 2-hydroxyethyl methacrylate | 0.06001 | 0.008 | OECD 104 | | | |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | 0.009 | 0.0012 | EU A.4 | | | |
| ethylene dimethacrylate | 0.0075 | 0.001 | | | | |
| α,α-dimethylbenzyl hydroperoxide | 0 | 0 | | | | |

- Relative density** : Not available.
- Density** : 1.1 g/cm³ [25°C (77°F)]
- Relative vapor density** : Not available.
- Particle characteristics**
- Median particle size** : Not applicable.

SECTION 9: Physical and chemical properties

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidizing properties : Not available.

9.2.2 Other safety characteristics

Miscible with water : No.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Highly reactive or incompatible with the following materials: metals.

Reactive or incompatible with the following materials: oxidizing materials and reducing materials.

Reacts with heavy metals and metallic salts.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name

2-hydroxyethyl methacrylate

Result

Rat - Oral - LD50

5050 mg/kg

Toxic effects: Behavioral - Coma

α,α -dimethylbenzyl hydroperoxide

Rat - Dermal - LD50

500 mg/kg

Toxic effects: Behavioral - Convulsions or effect on seizure threshold
Kidney, Ureter, and Bladder - Hematuria

Rat - Oral - LD50

800 mg/kg

Rat - Inhalation - LC50 Gas.

220 ppm [4 hours]

Toxic effects: Lung, Thorax, or Respiration - Dyspnea

acrylic acid

Rat - Oral - LD50

33500 μ g/kg

Rat - Intraperitoneal - LD50

22 mg/kg

Rat - Unreported - LD50

1250 mg/kg

SECTION 11: Toxicological information

Mouse - Oral - LD50

2400 mg/kg

Toxic effects: Tumorigenic - Active as anti-cancer agent

Mouse - Intraperitoneal - LD50

144 mg/kg

Mouse - Subcutaneous - LD50

1590 mg/kg

Mouse - Unreported - LD50

830 mg/kg

Rabbit - Dermal - LD50

280 ul/kg

Rabbit - Unreported - LD50

250 mg/kg

Rabbit - Dermal - LD50

640 mg/kg

Toxic effects: Cardiac - Cardiomegaly Lung, Thorax, or Respiration - Acute pulmonary edema Skin After topical exposure - Corrosive

Rat - Oral - LD50

1337 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity)

Mouse - Inhalation - LC50 Vapor

5300 mg/m³ [2 hours]

ethanediol

Rat - Oral - LD50

4700 mg/kg

ethylene dimethacrylate

Rat - Oral - LD50

3300 mg/kg

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|----------------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| WEICONLOCK AN 306-03 | 15384.6 | 27500.0 | 35000.0 | 550.0 | N/A |
| 2-hydroxyethyl methacrylate | 5050 | N/A | N/A | N/A | N/A |
| α,α-dimethylbenzyl hydroperoxide | 800 | 1100 | 700 | N/A | N/A |
| acrylic acid | 500 | 1100 | N/A | 11 | N/A |
| ethanediol | 500 | N/A | N/A | N/A | N/A |
| ethylene dimethacrylate | 3300 | N/A | N/A | N/A | N/A |

Skin corrosion/irritation

Product/ingredient name

Result

SECTION 11: Toxicological information

α,α -dimethylbenzyl hydroperoxide

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

acrylic acid

Rabbit - Skin - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 5 mg

Rabbit - Skin - Severe irritant

Amount/concentration applied: 500 mg

ethanediol

Rabbit - Skin - Mild irritant

Amount/concentration applied: 555 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

acrylic acid

Result

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 250 ug

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 1 mg

ethanediol

Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 1 hours

Amount/concentration applied: 100 mg

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 6 hours

Amount/concentration applied: 1440 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Result |
|---|--|
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | STOT SE 3, H335 (Respiratory tract irritation) |
| α,α -dimethylbenzyl hydroperoxide | STOT SE 3, H335 (Respiratory tract irritation) |
| acrylic acid | STOT SE 3, H335 (Respiratory tract irritation) |
| ethylene dimethacrylate | STOT SE 3, H335 (Respiratory tract irritation) |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Result |
|---|-----------------|
| α,α -dimethylbenzyl hydroperoxide | STOT RE 2, H373 |

Aspiration hazard

Not available.

Information on the likely routes of exposure

Not available.

Potential acute health effects

| | |
|---------------------|--|
| Eye contact | : Causes serious eye damage. |
| Inhalation | : May cause respiratory irritation. |
| Skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|---------------------|--|
| Eye contact | : Adverse symptoms may include the following: pain watering redness |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing |
| Skin contact | : Adverse symptoms may include the following: pain or irritation redness blistering may occur |
| Ingestion | : Adverse symptoms may include the following: stomach pains |

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

SECTION 11: Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

2-hydroxyethyl methacrylate

Result

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* - Juvenile (Fledgling, Hatchling, Weanling)

Age: 28 to 34 days; Size: 20.9 mm; Weight: 0.134 g

227 mg/l [96 hours]

Effect: Mortality

α,α -dimethylbenzyl hydroperoxide

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* - Larvae

Age: <24 hours

12.7 mg/l [96 hours]

Effect: Mortality

acrylic acid

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna* - Neonate

Age: <24 hours

3.8 mg/l [21 days]

Effect: Reproduction

ethanediol

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: \leq 7 days

8050 mg/l [96 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate

6900 mg/l [48 hours]

Effect: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

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SECTION 12: Ecological information

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|-------|-----------|
| 2-hydroxyethyl methacrylate | 0.42 | - | Low |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | 5.09 | - | High |
| α,α-dimethylbenzyl hydroperoxide | 1.6 | 9 | Low |
| acrylic acid | 0.38 | 3.162 | Low |
| ethanediol | -1.36 | - | Low |
| ethylene dimethacrylate | 1.87 | - | Low |

12.4 Mobility in soil

Soil/Water partition coefficient

| Product/ingredient name | logK _{oc} | K _{oc} |
|--|--------------------|-----------------|
| 2-hydroxyethyl methacrylate | 1.3 | 20.9282 |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | 3.2 | 1501.87 |
| (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate | 1.7 | 55.7557 |
| α,α-dimethylbenzyl hydroperoxide | 1.7 | 46.6217 |
| acrylic acid | 0.9 | 7.90304 |
| ethanediol | 0.75 | 5.59292 |
| ethylene dimethacrylate | 1.3 | 18.3049 |

Results of PMT and vPvM assessment

| Product/ingredient name | PMT | P | M | T | vPvM | vP | vM |
|---|-----|----|----|----|------|----|----|
| Poly(oxy-1,2-ethanediyl), α, α'-[(1-methylethylidene)di-4,1-phenylene]bis[ω-(2-methyl-1-oxo-2-propen-1-yl)oxy]- | No | No | No | No | No | No | No |
| 2-hydroxyethyl methacrylate | No | No | No | No | No | No | No |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | No | No | No | No | No | No | No |
| (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate | No | No | No | No | No | No | No |
| α,α-dimethylbenzyl hydroperoxide | No | No | No | No | No | No | No |
| acrylic acid | No | No | No | No | No | No | No |
| ethanediol | No | No | No | No | No | No | No |
| ethylene dimethacrylate | No | No | No | No | No | No | No |

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

SECTION 12: Ecological information

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|--|-----|-----|-----|-----|------|-----|-----|
| Poly(oxy-1,2-ethanediyl), α , α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propen-1-yl)oxy]-2-hydroxyethyl methacrylate | No | N/A | N/A | No | N/A | N/A | N/A |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | No | N/A | N/A | No | N/A | N/A | N/A |
| (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate | No | N/A | N/A | No | N/A | N/A | N/A |
| α , α -dimethylbenzyl hydroperoxide | No | N/A | No | Yes | No | N/A | No |
| acrylic acid | No | N/A | No | No | No | N/A | No |
| ethanediol | No | N/A | N/A | No | N/A | N/A | N/A |
| ethylene dimethacrylate | No | N/A | N/A | No | N/A | N/A | N/A |

Regulation (EC) No. 1272/2008 [CLP]

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|--|-----|----|----|----|------|----|----|
| Poly(oxy-1,2-ethanediyl), α , α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propen-1-yl)oxy]-2-hydroxyethyl methacrylate | No | No | No | No | No | No | No |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | No | No | No | No | No | No | No |
| (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate | No | No | No | No | No | No | No |
| α , α -dimethylbenzyl hydroperoxide | No | No | No | No | No | No | No |
| acrylic acid | No | No | No | No | No | No | No |
| ethanediol | No | No | No | No | No | No | No |
| ethylene dimethacrylate | No | No | No | No | No | No | No |

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

SECTION 13: Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

| Waste code | Waste designation |
|------------|--|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances |

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

| Type of packaging | European waste catalogue (EWC) |
|-------------------|--|
| Tube | 15 01 10* packaging containing residues of or contaminated by hazardous substances |

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|--|----------------|---|----------------|----------------|
| 14.1 UN number or ID number | Not available. | 9006 | Not available. | Not available. |
| 14.2 UN proper shipping name | Not available. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | Not available. | Not available. |
| 14.3 Transport hazard class(es) | Not available. | 9 | Not available. | Not available. |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | Yes. | No. | No. |

Additional information

ADN : The product is only regulated as a dangerous good when transported in tank vessels.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed above the relevant limit.

Substances of very high concern

None of the components are listed above the relevant limit.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name | % | Designation [Usage] |
|-------------------------|-----|---------------------|
| WEICONLOCK AN 306-03 | ≥90 | 3 |

Labeling : Not applicable.

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : Not applicable.

Total percentage of synthetic polymer microparticles : Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

VOC content : ca. 3 %

VOC (g/L) : 29,6

National regulations

| Product/ingredient name | List name | Name on list | Classification | Notes |
|-------------------------|---------------------|--------------|----------------|-------|
| acrylic acid | DFG MAC-values list | - | Develop C | - |
| ethanediol | DFG MAC-values list | - | Develop C | - |

Storage class (TRGS 510) : 10

Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water : 1

Technical instruction on air quality control (TA Luft)

SECTION 15: Regulatory information

| Number [Class] | Description | % |
|----------------|--------------------|------|
| 5.2.5 | Organic substances | 88.1 |
| 5.2.5 [I] | Organic substances | 4.6 |

AOX : The product does not contain organically bound halogens which could lead to an AOX value in waste water.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

| | |
|--------------------------------|---|
| Australia | : All components are listed or exempted. |
| Canada | : At least one component is not listed in DSL but all such components are listed in NDSL. |
| China | : All components are listed or exempted. |
| Eurasian Economic Union | : Russian Federation inventory : All components are listed or exempted. |
| Japan | : Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (ISHL) : Not determined. |
| New Zealand | : All components are listed or exempted. |
| Philippines | : Not determined. |
| Republic of Korea | : All components are listed or exempted. |
| Taiwan | : All components are listed or exempted. |
| Thailand | : All components are listed or exempted. |
| Turkey | : Not determined. |
| United States | : All components are active or exempted. |
| Viet Nam | : All components are listed or exempted. |

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

📌 Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
B = Bioaccumulative
BCF = Bioconcentration Factor
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement

SECTION 16: Other information

IATA = International Air Transport Association
 IMDG = International Maritime Dangerous Goods
 IMO = International Maritime Organization
 M = Mobile
 N/A = Not available
 P = Persistent
 PBT = Persistent, Bioaccumulative and Toxic
 PMT = Persistent, Mobile and Toxic
 PNEC = Predicted No Effect Concentration
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
 RRN = REACH Registration Number
 SGG = Segregation Group
 T = Toxic
 vB = Very Bioaccumulative
 vM = Very Mobile
 vP = Very Persistent
 vPvB = Very Persistent and Very Bioaccumulative
 vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

Full text of abbreviated H statements

| | |
|------|--|
| H226 | Flammable liquid and vapor. |
| H242 | Heating may cause a fire. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Full text of classifications [CLP/GHS]

| | |
|-------------------|---|
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | AQUATIC HAZARD (ACUTE) - Category 1 |
| Aquatic Chronic 2 | AQUATIC HAZARD (LONG-TERM) - Category 2 |
| Aquatic Chronic 3 | AQUATIC HAZARD (LONG-TERM) - Category 3 |
| Aquatic Chronic 4 | AQUATIC HAZARD (LONG-TERM) - Category 4 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Org. Perox. E | ORGANIC PEROXIDES - Type E |
| Skin Corr. 1A | SKIN CORROSION/IRRITATION - Category 1A |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITIZATION - Category 1 |

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SECTION 16: Other information

| | |
|-----------|---|
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3 |

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