

SAFETY DATA SHEET



WEICON Anti-Stick Epoxy Hardener

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

1.1 Product identifier

Product name : WEICON Anti-Stick Epoxy Hardener
UFI : EDVE-E0VA-J00N-V646
Product code : 171502
Color : Gray.
Product description : Hardener for resins.
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

Hardener for resins.

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]

Acute Tox. 4, H302
Skin Corr. 1B, H314
Eye Dam. 1, H318
Skin Sens. 1, H317
Aquatic Chronic 2, H411

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

SECTION 2: Hazards identification

Ingredients of unknown toxicity : 32.9 percent of the mixture consists of component(s) of unknown acute oral toxicity
32.9 percent of the mixture consists of component(s) of unknown acute dermal toxicity
32.9 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

Ingredients of unknown ecotoxicity : Contains 32.9% of components with unknown hazards to the aquatic environment

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

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 thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing and eye or face protection.

Response :

P391 - Collect spillage.
P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
P363 - Wash contaminated clothing 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.

Disposal : P501 - Dispose of waste according to applicable legislation.

Hazardous ingredients : Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine; Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine; 2,4,6-tris (dimethylaminomethyl)phenol; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis (methylamine); 3-aminomethyl-3,5,5-trimethylcyclohexylamine; m-phenylenebis (methylamine); 3-aminomethyl-3,5,5-trimethylcyclohexylamine; benzyl alcohol; Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols; 3-aminopropyltriethoxysilane and 3-aminopropyltriethoxysilane

Supplemental label elements : Not applicable.

SECTION 2: Hazards identification

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 : Yes, applicable.

Tactile warning of danger : Yes, 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 |
|--|---|-----------|---|---|---------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1 | ≥10 - ≤25 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | - | [1] |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | REACH #: 01-2119983521-35 EC: 606-078-8 CAS: 186321-96-0 | ≥10 - <25 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| 2,4,6-tris (dimethylaminomethyl) phenol | EC: 202-013-9 CAS: 90-72-2 | ≥5 - ≤10 | Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 | ATE [Oral] = 500 mg/kg | [1] |
| benzyl alcohol | REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5 | ≥5 - ≤10 | Acute Tox. 4, H302 Acute Tox. 4, H332 | ATE [Oral] = 500 mg/kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l | [1] [2] |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine) | REACH #: 01-2119965162-39 EC: 500-302-7 CAS: 113930-69-1 | ≥5 - ≤10 | Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | - | [1] |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | EC: 220-666-8 CAS: 2855-13-2 | ≥5 - ≤10 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 | ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg | [1] [2] |

SECTION 3: Composition/information on ingredients

| | | | | | |
|------------------------------|--|---------|--|---|---------|
| m-phenylenebis (methylamine) | REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0 | ≥1 - ≤3 | Skin Sens. 1, H317 Aquatic Chronic 3, H412 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 | ATE [Oral] = 500 mg/kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l | [1] [2] |
| Phenol, styrenated | REACH #: 01-2119980970-27 EC: 262-975-0 CAS: 61788-44-1 | ≥1 - ≤3 | Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | - | [1] |
| 3-aminopropyltriethoxysilane | REACH #: 01-2119480479-24 EC: 213-048-4 CAS: 919-30-2 | ≥1 - <3 | Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 See Section 16 for the full text of the H statements declared above. | ATE [Inhalation (vapours)] = 11 mg/l Skin Sens. 1, H317: C ≥ 3% | [1] |

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 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.

SECTION 4: First aid measures

- 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

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- 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 toxic 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
halogenated compounds
metal oxide/oxides

5.3 Advice for firefighters

SECTION 5: Firefighting measures

- 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.
- 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. Collect spillage.

6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

SECTION 7: Handling and storage

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.

Seveso Directive - Reporting thresholds

Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| E2 | 200 tonne | 500 tonne |

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 |
|---|--|
| benzyl alcohol | <p>DFG MAC-values list (Germany, 7/2024) Develop C. Absorbed through skin. PEAK 15 minutes: 44 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 10 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 22 mg/m³. TWA 8 hours: 5 ppm.</p> <p>TRGS 900 OEL (Germany, 3/2025) Absorbed through skin. PEAK 15 minutes: 10 ppm. PEAK 15 minutes: 44 mg/m³. TWA 8 hours: 22 mg/m³. TWA 8 hours: 5 ppm.</p> |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine m-phenylenebis(methylamine) 3-aminomethyl-3,5,5-trimethylcyclohexylamine benzyl alcohol | <p>DFG MAC-values list (Germany, 7/2024) Skin sensitizer. DFG MAC-values list (Germany, 7/2024) Skin sensitizer. DFG MAC-values list (Germany, 7/2024) Skin sensitizer. DFG MAC-values list (Germany, 7/2024) Develop C. Absorbed through skin. PEAK 15 minutes: 44 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 10 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 22 mg/m³. TWA 8 hours: 5 ppm.</p> <p>TRGS 900 OEL (Germany, 3/2025) Absorbed through skin. PEAK 15 minutes: 10 ppm. PEAK 15 minutes: 44 mg/m³. TWA 8 hours: 22 mg/m³. TWA 8 hours: 5 ppm.</p> |

SECTION 8: Exposure controls/personal protection

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

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

Result

DNEL - General population - Long term - Oral

97.2 µg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

97.2 µg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

0.169 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

0.272 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

0.952 mg/m³

Effects: Systemic

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

DNEL - General population - Long term - Oral

0.5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

0.5 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

1 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

1.74 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

7.05 mg/m³

Effects: Systemic

2,4,6-tris(dimethylaminomethyl)phenol

DNEL - General population - Long term - Oral

0.075 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Dermal

0.075 mg/kg bw/day

Effects: Systemic

SECTION 8: Exposure controls/personal protection

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

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

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

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

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

DNEL - Workers - Short term - Dermal
0.6 mg/kg bw/day
Effects: Systemic

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

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

DNEL - General population - Long term - Oral
50 µg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Dermal
50 µg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation
74 µg/m³
Effects: Systemic

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

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

benzyl alcohol

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

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

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

DNEL - Workers - Long term - Dermal

SECTION 8: Exposure controls/personal protection

8 mg/kg bw/day
Effects: Systemic

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

DNEL - General population - Short term - Dermal
20 mg/kg bw/day
Effects: Systemic

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

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

DNEL - Workers - Short term - Dermal
40 mg/kg bw/day
Effects: Systemic

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

3-aminomethyl-
3,5,5-trimethylcyclohexylamine

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

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

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

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

m-phenylenebis(methylamine)

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

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

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

3-aminomethyl-
3,5,5-trimethylcyclohexylamine

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

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

SECTION 8: Exposure controls/personal protection

benzyl alcohol

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

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

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

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

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

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

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

DNEL - General population - Short term - Dermal
20 mg/kg bw/day
Effects: Systemic

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

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

DNEL - Workers - Short term - Dermal
40 mg/kg bw/day
Effects: Systemic

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

3-aminopropyltriethoxysilane

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

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

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

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

SECTION 8: Exposure controls/personal protection

| | |
|------------------------------|---|
| 3-aminopropyltriethoxysilane | DNEL - Workers - Long term - Inhalation 14 mg/m ³ <u>Effects</u> : Systemic |
| | DNEL - General population - Long term - Oral 1 mg/kg bw/day <u>Effects</u> : Systemic |
| | DNEL - General population - Long term - Dermal 1 mg/kg bw/day <u>Effects</u> : Systemic |
| | DNEL - Workers - Long term - Dermal 2 mg/kg bw/day <u>Effects</u> : Systemic |
| | DNEL - General population - Long term - Inhalation 3.5 mg/m ³ <u>Effects</u> : Systemic |
| | DNEL - Workers - Long term - Inhalation 14 mg/m ³ <u>Effects</u> : Systemic |
| octamethylcyclotetrasiloxane | DNEL - General population - Long term - Oral 3.7 mg/kg bw/day <u>Effects</u> : Systemic |
| | DNEL - General population - Long term - Inhalation 13 mg/m ³ <u>Effects</u> : Local |
| | DNEL - General population - Long term - Inhalation 13 mg/m ³ <u>Effects</u> : Systemic |
| | DNEL - Workers - Long term - Inhalation 73 mg/m ³ <u>Effects</u> : Local |
| | DNEL - Workers - Long term - Inhalation 73 mg/m ³ <u>Effects</u> : Systemic |
| | DNEL - Workers - Long term - Inhalation 73 mg/m ³ <u>Effects</u> : Systemic |

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls

: 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.

SECTION 8: Exposure controls/personal protection

- 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
- 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** : Gray.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit** : Not available.
- Flash point** :

WEICON Anti-Stick Epoxy Hardener

SECTION 9: Physical and chemical properties

| Ingredient name | Closed cup | | | Open cup | | |
|--|------------|-------|----------------|----------|-------|----------------|
| | °C | °F | Method | °C | °F | Method |
| octamethylcyclotetrasiloxane | 56 | 132.8 | DIN 51758 | 82.7 | 180.9 | ASTM D 3828-87 |
| decamethylcyclopentasiloxane | | | | | | |
| 3-aminopropyltriethoxysilane | 93 | 199.4 | | | | |
| benzyl alcohol | 100.56 | 213 | | | | |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | | | | 110 | 230 | |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | >110 | >230 | | | | |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine) | 128 | 262.4 | | | | |
| m-phenylenebis(methylamine) | | | | 134 | 273.2 | |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | >200 | >392 | Pensky-Martens | | | |

Auto-ignition temperature :

| Ingredient name | °C | °F | Method |
|--|------------|----------------|---------------|
| decamethylcyclopentasiloxane | 372 | 701.6 | ASTM E 659-78 |
| 2,4,6-tris(dimethylaminomethyl)phenol | 382 | 719.6 | EU A.15 |
| octamethylcyclotetrasiloxane | 384 to 387 | 723.2 to 728.6 | ASTM E 659 |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | 401 | 753.8 | |
| benzyl alcohol | 436 | 816.8 | |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine) | 526 | 978.8 | |

Decomposition temperature : Not available.

pH : Not applicable.

Viscosity : 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 |
| | | | | | | |

WEICON Anti-Stick Epoxy Hardener

SECTION 9: Physical and chemical properties

| | | | | | | |
|---|------|--------|----------|--|--|--|
| octamethylcyclotetrasiloxane | 0.99 | 0.13 | | | | |
| decamethylcyclopentasiloxane | 0.25 | 0.033 | | | | |
| 2,4,6-tris(dimethylaminomethyl) phenol | 0.06 | 0.008 | EU A.4 | | | |
| benzyl alcohol | 0.05 | 0.0067 | | | | |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 0.01 | 0.0013 | OECD 104 | | | |
| m-phenylenebis(methylamine) | 0.01 | 0.0013 | OECD 104 | | | |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | 0 | 0 | | | | |

- Relative density** : Not available.
Density : 1.2 g/cm³ [20°C (68°F)]
Relative vapor density : Not available.
Particle characteristics
Median particle size : Not applicable.

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

Not applicable.

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.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name
benzyl alcohol

Result

Rat - Oral - LD50

1230 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Behavioral - Coma

Rabbit - Dermal - LD50

2000 mg/kg

SECTION 11: Toxicological information

m-phenylenebis(methylamine)

Rat - Oral - LD50

930 mg/kg

Rabbit - Dermal - LD50

2 g/kg

Rat - Inhalation - LC50 Gas.

700 ppm [1 hours]

Toxic effects: Eye - Lacrimation Lung, Thorax, or Respiration - Respiratory depression

benzyl alcohol

Rat - Oral - LD50

1230 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Behavioral - Coma

Mouse - Oral - LD50

1360 mg/kg

Rabbit - Oral - LD50

1040 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity)

Mouse - Oral - LD50

1360 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression

Rat - Oral - LD50

1660 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression

Rabbit - Oral - LD50

1040 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression

Rabbit - Dermal - LD50

2000 mg/kg

Rat - Oral - LD50

1.5 ml/kg

3-aminopropyltriethoxysilane

Rat - Oral - LD50

1.57 g/kg

Toxic effects: Gastrointestinal - Hypermotility, diarrhea Kidney, Ureter, and Bladder - Changes in tubules (including acute renal failure, acute tubular necrosis)

Rabbit - Dermal - LD50

4.29 g/kg

Toxic effects: Gastrointestinal - Ulceration or bleeding from stomach Kidney, Ureter, and Bladder - Other changes Skin After topical exposure - Primary irritation

3-aminopropyltriethoxysilane

Rabbit - Dermal - LD50

4.29 g/kg

Toxic effects: Gastrointestinal - Ulceration or bleeding from

SECTION 11: Toxicological information

stomach Kidney, Ureter, and Bladder - Other changes Skin
After topical exposure - Primary irritation

Rat - Oral - LD50

1.57 g/kg

Toxic effects: Gastrointestinal - Hypermotility, diarrhea Kidney, Ureter, and Bladder - Changes in tubules (including acute renal failure, acute tubular necrosis)

octamethylcyclotetrasiloxane

Rat - Inhalation - LC50 Vapor

36 g/m³ [4 hours]

Toxic effects: Behavioral - Excitement Lung, Thorax, or Respiration - Dyspnea Other - Hair

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) |
|--|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| WEICON B4NV Anti-Stick Hardener | 1333.4 | 12873.0 | N/A | 567.9 | 9.7 |
| 2,4,6-tris(dimethylaminomethyl)phenol | 500 | N/A | N/A | N/A | N/A |
| benzyl alcohol | 500 | N/A | N/A | N/A | 1.5 |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 500 | 1100 | N/A | N/A | N/A |
| m-phenylenebis(methylamine) | 500 | N/A | N/A | N/A | 1.5 |
| 3-aminopropyltriethoxysilane | N/A | 4290 | N/A | 11 | N/A |

Skin corrosion/irritation

Product/ingredient name

benzyl alcohol

Result

Man - Skin - Mild irritant

Duration of treatment/exposure: 48 hours

Amount/concentration applied: 16 mg

Pig - Skin - Moderate irritant

Amount/concentration applied: 100 %

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

m-phenylenebis(methylamine)

Rabbit - Skin - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 750 ug

benzyl alcohol

Man - Skin - Mild irritant

Duration of treatment/exposure: 48 hours

Amount/concentration applied: 16 mg

Pig - Skin - Moderate irritant

Amount/concentration applied: 100 %

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

3-aminopropyltriethoxysilane

Rabbit - Skin - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 5 mg

SECTION 11: Toxicological information

3-aminopropyltriethoxysilane

Rabbit - Skin - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 5 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

m-phenylenebis(methylamine)

Result

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 50 ug

3-aminopropyltriethoxysilane

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 100 mg

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 750 ug

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.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

SECTION 11: Toxicological information

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Not available.

Potential acute health effects

- Eye contact** : Causes serious eye damage.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes severe burns. May cause an allergic skin reaction.
Ingestion : Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- 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

- 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

benzyl alcohol

Result

Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus*

10 ppm [96 hours]

Effect: Mortality

3-aminomethyl-
3,5,5-trimethylcyclohexylamine

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna*

Age: <24 hours

17.4 mg/l [48 hours]

Effect: Intoxication

benzyl alcohol

Acute - LC50 - Fresh water

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

Age: 4 to 8 weeks; Size: 1.1 to 3.1 cm

460 mg/l [96 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus*

10 ppm [96 hours]

Effect: Mortality

octamethylcyclotetrasiloxane

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

Age: <24 hours

7.9 µg/l [21 days]

Effect: Mortality

Chronic - NOEC

STDMETH

Algae - Green algae - *Selenastrum capricornutum*

1 to 29 µg/l [96 hours]

Effect: Population

Chronic - NOEC - Fresh water

Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss* -
Embryo

Age: ≤24 hours

4.4 µg/l [33 days]

Effect: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|------|-----------|
| 2,4,6-tris(dimethylaminomethyl)phenol | 0.219 | - | Low |
| benzyl alcohol | 0.87 | - | Low |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine) | - | 4.77 | Low |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 0.99 | - | Low |
| m-phenylenebis(methylamine) | 0.18 | 2.69 | Low |
| 3-aminopropyltriethoxysilane | 1.7 | 3.4 | Low |

12.4 Mobility in soil

Soil/Water partition coefficient

| Product/ingredient name | logK _{oc} | K _{oc} |
|--|--------------------|-----------------|
| 2,4,6-tris(dimethylaminomethyl)phenol | 2.7 | 525.589 |
| benzyl alcohol | 1.1 | 12.6442 |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2 | 98.3852 |
| m-phenylenebis(methylamine) | 1.7 | 46.5812 |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2 | 98.3852 |
| benzyl alcohol | 1.1 | 12.6442 |
| 3-aminopropyltriethoxysilane | 2.5 | 282.955 |
| 3-aminopropyltriethoxysilane | 2.5 | 282.955 |
| octamethylcyclotetrasiloxane | 3.5 | 3064.9 |

Results of PMT and vPvM assessment

| Product/ingredient name | PMT | P | M | T | vPvM | vP | vM |
|--|-----|----|----|----|------|----|----|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | No | No | No | No | No | No | No |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | No | No | No | No | No | No | No |
| 2,4,6-tris(dimethylaminomethyl)phenol | No | No | No | No | No | No | No |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine) | No | No | No | No | No | No | No |
| benzyl alcohol | No | No | No | No | No | No | No |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | No | No | No | No | No | No | No |
| m-phenylenebis(methylamine) | No | No | No | No | No | No | No |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | No | No | No | No | No | No | No |

SECTION 12: Ecological information

| | | | | | | | |
|--|----|----|----|----|----|----|----|
| benzyl alcohol | No |
| Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols | No |
| 3-aminopropyltriethoxysilane | No |
| 3-aminopropyltriethoxysilane | No |
| octamethylcyclotetrasiloxane | 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]

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|--|-----|-----|-----|-----|------|-----|-----|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | No | N/A | N/A | No | N/A | N/A | N/A |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | No | N/A | N/A | No | N/A | N/A | N/A |
| 2,4,6-tris (dimethylaminomethyl) phenol | No | N/A | N/A | No | N/A | N/A | N/A |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine) | No | N/A | No | No | No | N/A | No |
| benzyl alcohol | No | N/A | N/A | No | N/A | N/A | N/A |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | No | N/A | N/A | No | N/A | N/A | N/A |
| m-phenylenebis (methylamine) | No | N/A | No | No | No | N/A | No |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | No | N/A | N/A | No | N/A | N/A | N/A |
| benzyl alcohol | No | N/A | N/A | No | N/A | N/A | N/A |
| Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols | No | N/A | N/A | No | N/A | N/A | N/A |
| 3-aminopropyltriethoxysilane | No | N/A | No | No | No | N/A | No |
| 3-aminopropyltriethoxysilane | No | N/A | No | No | No | N/A | No |
| octamethylcyclotetrasiloxane | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

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

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|---|-----|----|----|----|------|----|----|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | No | No | No | No | No | No | No |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | No | No | No | No | No | No | No |
| 2,4,6-tris | No | No | No | No | No | No | No |

SECTION 12: Ecological information

| | | | | | | | |
|---|----|----|----|----|----|----|----|
| (dimethylaminomethyl) phenol | No |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine) benzyl alcohol | No |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | No |
| m-phenylenebis(methylamine) | No |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine benzyl alcohol | No |
| Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols | No |
| 3-aminopropyltriethoxysilane | No |
| 3-aminopropyltriethoxysilane | No |
| octamethylcyclotetrasiloxane | 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

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 01 11* | waste paint and varnish 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.

SECTION 13: Disposal considerations

| Type of packaging | European waste catalogue (EWC) | |
|-------------------|--------------------------------|--|
| Can | 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 | UN1760 | UN1760 | UN1760 | UN1760 |
| 14.2 UN proper shipping name | CORROSIVE LIQUID, N.O.S. (2,4,6-tris (dimethylaminomethyl) phenol, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis (methylamine)) | CORROSIVE LIQUID, N.O.S. (2,4,6-tris (dimethylaminomethyl) phenol, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis (methylamine)) | CORROSIVE LIQUID, N.O.S. (2,4,6-tris (dimethylaminomethyl) phenol, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis (methylamine)) | CORROSIVE LIQUID, N.O.S. (2,4,6-tris (dimethylaminomethyl) phenol, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis (methylamine)) |
| 14.3 Transport hazard class(es) | 8   | 8   | 8   | 8  |
| 14.4 Packing group | II | II | II | II |
| 14.5 Environmental hazards | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |

Additional information

- ADR/RID** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code (E)
- ADN** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

| Intrinsic property | Ingredient name | Status | Reference number | Date of revision |
|--------------------|------------------------------|-------------|---------------------|------------------|
| PBT | octamethylcyclotetrasiloxane | Recommended | 10th recommendation | 4/14/2021 |
| vPvB | octamethylcyclotetrasiloxane | Recommended | 10th recommendation | 4/14/2021 |

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

| Product/ingredient name | % | Designation [Usage] |
|---------------------------------|-----|---------------------|
| WEICON B4NV Anti-Stick Hardener | ≥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 controlled under the Seveso Directive.

Danger criteria

| Category |
|----------|
| E2 |

Annex VIIA - Labelling for Contents

Identification

BENZYL ALCOHOL

Concentration

5% or over but less than 15%

VOC content : 9.92 %

SECTION 15: Regulatory information

VOC (g/L) : 119.02

National regulations

| Product/ingredient name | List name | Name on list | Classification | Notes |
|-------------------------|---------------------|--------------|----------------|-------|
| benzyl alcohol | DFG MAC-values list | - | Develop C | - |
| benzyl alcohol | DFG MAC-values list | - | Develop C | - |

Storage class (TRGS 510) : 8B

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

| Category | Reference number |
|----------|------------------|
| E2 | 1.3.2 |

Hazard class for water : 3

Technical instruction on air quality control (TA Luft)

| Number [Class] | Description | % |
|----------------|--------------------|------|
| 5.2.1 | Total dust | 32.9 |
| 5.2.5 | Organic substances | 68.5 |
| 5.2.5 [I] | Organic substances | 8.6 |

AOX : The product contains organically bound halogens and can contribute to the 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 | : Not determined. |
| Canada | : Not determined. |
| China | : Not determined. |
| Eurasian Economic Union | : Russian Federation inventory : Not determined. |
| Japan | : Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : Not determined. |
| New Zealand | : Not determined. |
| Philippines | : Not determined. |
| Republic of Korea | : Not determined. |
| Taiwan | : Not determined. |
| Thailand | : Not determined. |
| Turkey | : Not determined. |
| United States | : Not determined. |
| Viet Nam | : Not determined. |

WEICON Anti-Stick Epoxy Hardener

SECTION 15: Regulatory information

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
- 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 |
|-------------------------|--------------------|
| Acute Tox. 4, H302 | Calculation method |
| Skin Corr. 1B, H314 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

Full text of abbreviated H statements

| | |
|------|---|
| 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. |
| H332 | Harmful if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications [CLP/GHS]

SECTION 16: Other information

| | |
|-------------------|---|
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | AQUATIC HAZARD (ACUTE) - Category 1 |
| Aquatic Chronic 1 | AQUATIC HAZARD (LONG-TERM) - Category 1 |
| Aquatic Chronic 2 | AQUATIC HAZARD (LONG-TERM) - Category 2 |
| Aquatic Chronic 3 | AQUATIC HAZARD (LONG-TERM) - Category 3 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITIZATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITIZATION - Category 1A |
| Skin Sens. 1B | SKIN SENSITIZATION - Category 1B |

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.