SAFETY DATA SHEET



According to Work Health and Safety (WHS) Australia

WEICON HP Epoxy Hardener

Section 1. Identification

Product identifier : WEICON HP Epoxy Hardener

Product code : 103902

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

Hardener for resins.

Supplier's details : 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

National contact

WEICON Australia Pty. Ltd

1/55-65 Christensen Road, Stapylton QLD 4207

Phone: +61 493473383 E-Mail: info@weicon.com.au website: www.weicon.com.au

Emergency telephone

number

: National Poison Information Center: Tel: 131126

TRANSPORT / EMERGENCY CONTACT (24h): Tel: +61 2 8014 4558 (English) TRANSPORT / EMERGENCY CONTACT (24h): Tel.: 1800 074 234 (English)

Section 2. Hazard(s) identification

Classification of the substance or mixture

: SKIN CORROSION/IRRITATION - Category 1B

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

GHS label elements

Hazard pictograms :







Signal word : DANGER

Hazard statements : H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H350 - May cause cancer.

H372 - Causes damage to organs through prolonged or repeated exposure.

(lungs)

Precautionary statements

Prevention: P201 - Obtain special instructions before use.

P260 - Do not breathe vapor.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

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Section 2. Hazard(s) identification

Response

: P308 + P313 - IF exposed or concerned: Get medical advice or attention. 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.

Supplemental label

elements

: Not applicable.

Other hazards which do not : None known. result in classification

Section 3. Composition and ingredient information

Substance/mixture : Mixture

| Ingredient name | % (w/w) | CAS number | Classification |
|---|-----------|-------------|---|
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl) ethyl]amino]butyl-terminated | ≥30 - ≤60 | 68683-29-4 | SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 |
| Quartz respirable fraction | ≥30 - ≤60 | 14808-60-7 | CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis (methylamine) | ≤10 | 113930-69-1 | SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 |
| titanium dioxide | ≤5 | 13463-67-7 | CARCINOGENICITY - Category 2 |
| benzyl alcohol | ≤5 | 100-51-6 | ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | ≤3 | 2855-13-2 | ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 |

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Section 3. Composition and ingredient information

| 2,4,6-tris(dimethylaminomethyl)phenol | ≤3 | 90-72-2 | ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A |
|---|------|-------------|---|
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | ≤3 | 186321-96-0 | SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 |
| 2-piperazin-1-ylethylamine | ≤2.4 | 140-31-8 | ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 |
| 3-aminopropyltriethoxysilane | ≤2 | 919-30-2 | FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
| Phenol, styrenated | ≤0.3 | 61788-44-1 | SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1A |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

Description of necessary 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.

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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.

Most important symptoms/effects, acute and delayed

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: No known significant effects or critical hazards.

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

Indication of immediate medical attention and special treatment needed, if necessary

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.

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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

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Section 5. Fire-fighting measures

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

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.

Section 6. Accidental release measures

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".

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).

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.

Section 7. Handling and storage

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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.

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.

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Section 7. Handling and storage

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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|--|---|
| Quartz respirable fraction | Safe Work Australia (Australia, 12/2019). [Silica – Crystalline] TWA: 0.05 mg/m³ 8 hours. Form: Respirable dust |
| titanium dioxide | Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m³ 8 hours. |
| benzyl alcohol | DFG MAC-values list (Germany, 10/2021). Absorbed through skin. PEAK: 44 mg/m³, 4 times per shift, 15 minutes. PEAK: 10 ppm, 4 times per shift, 15 minutes. TWA: 22 mg/m³ 8 hours. TWA: 5 ppm 8 hours. |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | DFG MAC-values list (Germany, 10/2021). Skin sensitizer. |

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.

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.

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

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Section 8. Exposure controls and personal 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 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Yellow. [Light] Odor : Characteristic. : Not available. Odor threshold pН : Not applicable. **Melting point** : Not available. Boiling point, initial boiling : Not available.

point, and boiling range

Flash point : Closed cup: >100°C (>212°F)

Evaporation rate : Not available. : Not available. **Flammability** Lower and upper explosion : Not available.

limit/flammability limit

Vapor pressure

| | Vapor Pressure | | re at 20°C | Va | por pressure | at 50°C |
|--|----------------|--------|------------|-------|--------------|---------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| Orange, sweet, ext. | 1.4 | 0.19 | | | | |
| 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 | | | | |
| 2-piperazin-1-ylethylamine | 0.039 | 0.0052 | | | | |
| 3-aminomethyl- 3,5,5-trimethylcyclohexylamine | 0.01 | 0.0013 | OECD 104 | | | |
| m-phenylenebis(methylamine) | 0.01 | 0.0013 | OECD 104 | | | |
| propylidynetrimethanol | 0 | 0 | | | | |

Relative vapor density : Not available. Relative density : Not available.

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Section 9. Physical and chemical properties

Density : 1.4 g/cm³ [20°C (68°F)]

Solubility(ies)

Not available.

Solubility in water : Not available.

Partition coefficient: n- : Not applicable.

octanol/water

Auto-ignition temperature :

| Ingredient name | °C | °F | Method |
|--|------------|----------------|---------------|
| Orange, sweet, ext. | 235 | 455 | EU A.15 |
| 2-piperazin-1-ylethylamine | >300 | >572 | |
| 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 |
| 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.Viscosity: Not available.Flow time (ISO 2431): Not available.

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

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

Chemical stability: The product is stable.

Possibility of hazardous

reactions

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

Conditions to avoid : No specific data.

Incompatible materials: No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-------------|---------|------------|----------|
| benzyl alcohol | LD50 Dermal | Rabbit | 2000 mg/kg | - |
| | LD50 Oral | Mouse | 1360 mg/kg | - |
| | LD50 Oral | Mouse | 1360 mg/kg | - |
| | LD50 Oral | Rabbit | 1040 mg/kg | - |
| | LD50 Oral | Rabbit | 1040 mg/kg | - |

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Section 11. Toxicological information

| | LD50 Oral | Rat | 1.5 mL/kg | - | |
|------------------------------|-------------|--------|------------|---|--|
| | LD50 Oral | Rat | 1230 mg/kg | - | |
| | LD50 Oral | Rat | 1660 mg/kg | - | |
| 3-aminopropyltriethoxysilane | LD50 Dermal | Rabbit | 4.29 g/kg | - | |
| | LD50 Oral | Rat | 1.57 g/kg | - | |

Acute toxicity estimates

| Route | ATE value |
|------------------------------|----------------|
| Oral | 3329.72 mg/kg |
| Dermal | 15578.91 mg/kg |
| Inhalation (dusts and mists) | 27.15 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|------------------------------|--------------------------|---------|-------|---------------------|-------------|
| titanium dioxide | Skin - Mild irritant | Human | - | 72 hours 300 | - |
| benzyl alcohol | Skin - Mild irritant | Man | - | ug I 48 hours 16 | - |
| | Skin - Moderate irritant | Pig | _ | mg 100 % | _ |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 100 | - |
| 2-piperazin-1-ylethylamine | Eyes - Moderate irritant | Rabbit | - | mg 24 hours 20 | - |
| | Skin - Severe irritant | Rabbit | - | mg 24 hours 5 | - |
| 2 | Chin Course insite at | Dabbit | | mg | |
| 3-aminopropyltriethoxysilane | Skin - Severe Irritant | Rabbit | - | 24 hours 5 mg | - |

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|----------------------------|------------|-------------------|---------------|
| Quartz respirable fraction | Category 1 | inhalation | lungs |

Aspiration hazard

Not available.

Section 11. Toxicological information

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: 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 : 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

: Not available.

effects

Potential delayed effects : N

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects :

: Not available.

Potential chronic health effects

Not available

General : Causes damage to organs through prolonged or repeated exposure. Once

sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels.

Carcinogenicity: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

| | /I) and mists) (mg/I) |
|--|-----------------------|
|--|-----------------------|

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Section 11. Toxicological information

| WEICON WAL06 Epoxy Hardener | 3329.7 | 15578.9 | N/A | N/A | 27.1 |
|--|--------|---------|-----|-----|------|
| 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 |
| 2,4,6-tris(dimethylaminomethyl)phenol | 500 | N/A | N/A | N/A | N/A |
| 2-piperazin-1-ylethylamine | 500 | 1100 | N/A | N/A | N/A |
| 3-aminopropyltriethoxysilane | 1570 | 4290 | N/A | N/A | N/A |
| | | | | | |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|----------------------------|---------------------------------------|---|----------|
| titanium dioxide | Acute EC50 19.3 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 27.8 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 35.306 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> - Neonate | 48 hours |
| | Acute LC50 3 mg/l Fresh water | Crustaceans - <i>Ceriodaphnia</i> dubia - Neonate | 48 hours |
| | Acute LC50 13.4 mg/l Fresh water | Crustaceans - <i>Ceriodaphnia</i> dubia - Neonate | 48 hours |
| | Acute LC50 11 mg/l Fresh water | Crustaceans - <i>Ceriodaphnia</i> dubia - Neonate | 48 hours |
| | Acute LC50 3.6 mg/l Fresh water | Crustaceans - <i>Ceriodaphnia</i> dubia - Neonate | 48 hours |
| | Acute LC50 15.9 mg/l Fresh water | Crustaceans - <i>Ceriodaphnia</i> dubia - Neonate | 48 hours |
| | Acute LC50 6.5 mg/l Fresh water | Daphnia - <i>Daphnia pulex</i> - Neonate | 48 hours |
| | Acute LC50 13 mg/l Fresh water | Daphnia - <i>Daphnia pulex</i> - Neonate | 48 hours |
| | Acute LC50 >1000000 μg/l Marine water | Fish - Fundulus heteroclitus | 96 hours |
| | Acute LC50 >1000 mg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| benzyl alcohol | Acute LC50 10000 μg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| | Acute LC50 15000 μg/l Marine water | Fish - Menidia beryllina | 96 hours |
| | Acute LC50 460000 μg/l Fresh water | Fish - <i>Pimephales promelas</i> - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| 2-piperazin-1-ylethylamine | Acute LC50 2190000 μg/l Fresh water | Fish - Pimephales promelas | 96 hours |

Persistence and degradability

Not available.

Bioaccumulative potential

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|--------------------------------|-------------|------------------------|-------------|------------------------|-------|--|
| | | | | | | |

Section 12. Ecological information

| Product/ingredient name | LogPow | BCF | Potential |
|--------------------------------|--------|------|-----------|
| 4,4'-Isopropylidenediphenol, | - | 4.77 | Low |
| oligomeric reaction products | | | |
| with 1-chloro- | | | |
| 2,3-epoxypropane, reaction | | | |
| products with m- | | | |
| phenylenebis(methylamine) | | | |
| benzyl alcohol | 0.87 | - | Low |
| 3-aminomethyl- | 0.99 | - | Low |
| 3,5,5-trimethylcyclohexylamine | | | |
| 2,4,6-tris | 0.219 | - | Low |
| (dimethylaminomethyl)phenol | | | |
| 2-piperazin-1-ylethylamine | -1.48 | - | Low |
| 3-aminopropyltriethoxysilane | 1.7 | 3.4 | Low |

Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

| | ADG | ADR/RID | IMDG | IATA | |
|----------------------------|--|---|---|---|--|
| UN number | UN3082 | UN1760 | UN1760 | UN1760 | |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis (methylamine), Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine) | CORROSIVE LIQUID, N.O.S. (4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with m-phenylenebis (methylamine), 3-aminomethyl- 3,5,5-trimethylcyclohexylamine) | CORROSIVE LIQUID, N.O.S. (4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with m-phenylenebis (methylamine), 3-aminomethyl- 3,5,5-trimethylcyclohexylamine) | CORROSIVE LIQUID, N.O.S. (4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with m-phenylenebis (methylamine), 3-aminomethyl- 3,5,5-trimethylcyclohexylamine) | |

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Section 14. Transport information

| Transport hazard class(es) | 9 | 8 | 8 | 8 |
|----------------------------|------|------|------|--|
| Packing group | III | Ш | Ш | II |
| Environmental hazards | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |

Additional information

ADG : The product is not regulated as a dangerous good when transported by road or rail

in either an IBC, or in other container types if ≤500 kg. This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

ADR/RID : The environmentally hazardous substance mark is not required when transported in

sizes of ≤5 L or ≤5 kg.

Tunnel code (E)

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.

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.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

| Ingredient name | Schedule |
|----------------------------|---|
| Quartz respirable fraction | Restricted hazardous chemical [For abrasive blasting at a concentration of greater than 1%] |

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.

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Section 15. Regulatory information

Canada : Not determined.
China : Not determined.

Eurasian Economic Union: Russian Federation inventory: All components are listed or exempted.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : All components are listed or exempted.

Section 16. Any other relevant information

History

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Key to abbreviations : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Procedure used to derive the classification

| Classification | Justification |
|---|--------------------|
| SKIN CORROSION/IRRITATION - Category 1B | Calculation method |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 | Calculation method |
| SKIN SENSITIZATION - Category 1 | Calculation method |
| CARCINOGENICITY - Category 1 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 | Calculation method |

References: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

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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.

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