

Philadelphia Coatings LLC

Americas Office: 6 Georgian Row, The Woodlands, Texas, TX 77380, USA

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E-mail: info@philacoatings.com

Website: www.philacoatings.com



Safety Data Sheet

1. Chemicals and enterprise identification

Product name and code: **PHILAZINC PHZC 7000 - Comp. A**

Application of the substance: **Two component epoxy anticorrosive zinc rich primer**

Product use: **Coating Solvent-borne**

Color: **Gray**

Supplier/manufacturer: **Philadelphia Coatings LLC**

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Chemical emergency response numbers: 1-800-255-3924 for Domestic and +1-813-248-0585 for International.

Shipments of hazardous materials within the listed countries should reference ChemTel's in-county phone numbers:

Australia: 1-300-954-583, Brazil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086, Mexico: 01-800-099-0731

2. Hazards identification

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 (REACH), Annex II and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Pictograms:



Signal word: Danger

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Hazard classification (GHS) and indication:

| | | | |
|--|---|------|--|
| Flammable liquids | Category 2 | H225 | High flammable liquid and vapour |
| Flammable liquids | Category 3 | H226 | Flammable liquid and vapour |
| Acute toxicity/Inhalation (Dust and Mists) | Category 4 | H332 | Harmful if inhaled |
| Acute toxicity Oral | Category 4 | H302 | Harmful if swallowed |
| Aspiration Hazard | Category 1 | H304 | May be fatal if swallowed and enters airways |
| Acute toxicity Dermal | Category 4 | H312 | Harmful in contact with skin |
| Skin corrosion/irritation | Category 2 | H315 | Causes skin irritation |
| Skin sensitizers | Category 1 | H317 | May cause an allergic skin reaction |
| Serious eye damage/eye irritation | Category 1 | H318 | Causes serious eye damage |
| Serious eye damage/eye irritation | Category 2 | H319 | Causes serious eye irritation |
| Specific target organ toxicity - single exposure | Category 3 (respiratory tract irritation) | H335 | May cause respiratory irritation |
| Specific target organ toxicity - single exposure | Category 3 (respiratory tract irritation) | H336 | May cause drowsiness or dizziness |
| Aquatic environmental hazard/Short-term/Acute | Category 1 | H400 | Very toxic to aquatic life |
| Aquatic environmental hazard/Long-term/Chronic | Category 1 | H410 | Very toxic to aquatic life with long lasting effects |
| Aquatic environmental hazard/Long-term | Category 2 | H411 | Toxic to aquatic life with long lasting effects |

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3. Ingredient/composition information

| Chemical name | Notes | CAS number | EC number | % by weight | Classification |
|--|-------|-------------|-----------|-------------|--|
| Zinc Powder – Zinc Dust (stabilized) | - | 7440-66-6 | 231-175-3 | 50 - 75 | Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10 |
| Bisphenol-A-(Chloromethyl) Epoxy resin (MW ≤ 700) | - | 25068-38-6 | 500-033-5 | 2.5 - 10 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Xylene (Mixture of Isomers) | C | 1330-20-7 | 215-535-7 | 2.5 - 10 | Flam. Liq. 3, H226, Acute Tox. 4, H312, Acute Tox. 4, H332 Skin. Irrit. 2, H315 Eye Irrit. 2, H319 |
| 2-butoxyethanol | - | 111-76-2 | 203-905-0 | 2.5 - 10 | Skin Irrit. 2, H315 Acute Tox. 4, H302 Acute Tox. 4, H312, Acute Tox. 4, H332 Eye Irrit. 2, H319 |
| 4-Methyl-2-pentanone | - | 108-10-1 | 203-550-1 | 1 - 2.5 | Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066 |
| 2-methylpropan-1-ol | 6 | 78-83-1 | 201-148-0 | 1 - 2.5 | Flam. Liq. 3, H226 Skin. Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 |
| Isotridecylalcohol, ethoxylated, phosphated, compd. with N, N-dimethylecyclohexanamine | - | 164383-18-0 | - | 1 - 2.5 | Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Eye Irrit. 2, H319 |

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First-aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical advice/attention.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. Get medical advice/attention.

Inhalation: Get medical advice/attention immediately. Remove to fresh air away from the accident scene. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Take suitable precautions for rescue workers.

Ingestion: If swallowed, have the subject drink as much water as possible. Get medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting unless explicitly authorized by a doctor.

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5. Fire-fighting measures

Extinguishing media: Recommended: alcohol-resistant foam, CO₂, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapors and protect those trying to stem the leak.

Extinguishing media not to be used: Do not use water jet. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

Recommendations: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Advice for firefighters: Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Special protective equipment for firefighters: Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6. Accidental release measures

Personal precautions: Exclude sources of ignition and ventilate the area. If there are no contraindications, spray powder with water to prevent the formation of dust. Avoid breathing vapors, mists or gases.

Refer to protective measures listed in sections 7 and 8.

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 (see section 13).

Spill: Preferably clean with a detergent. Avoid using solvents.

Environmental precautions: The product must not penetrate the sewer system or meet surface water or ground water.

Methods and material for containment and cleaning up: Use spark-proof mechanical equipment to collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7.

Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling: Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. To dissipate static electricity during transfer, earth drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded.

Electrical equipment should be protected to the appropriate standard.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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Put on appropriate personal protective equipment (see section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

When operators, whether spraying or not, must work inside the spray booth, ventilation is unlikely to be enough to control particulates and solvent vapor in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapor concentration has fallen below the exposure limits.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

Storage: Store in accordance with local regulations. Observe label precautions. Store in a dry, cool and well-ventilated area.

Keep away from heat and direct sunlight. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains. Keep away from sources of ignition.

Keep away from oxidizing agents, strong alkalis, strong acids.

8. Exposure controls/personal protection

Engineering measures: Provide adequate ventilation. Where reasonably practicable, this should be achieved using local exhaust ventilation and good general extraction. If these are not enough to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

Ingredient name & Occupational exposure limits

Xylene:

EH40/2005-WELs (12/2011).

STEL: 441 mg/m³ 15 minutes.

STEL: 100 ppm 15 minutes.

TWA: 220 mg/m³ 8 hours.

TWA: 50 ppm 8 hours.

4-Methyl-2-pentanone:

EH40/2005-WELs (12/2011).

STEL: 416 mg/m³ 15 minutes.

STEL: 100 ppm 15 minutes.

TWA: 208 mg/m³ 8 hours.

TWA: 50 ppm 8 hours.

2-Methylpropan-1-ol:

EH40/2005-WELs (12/2011).

STEL: 231 mg/m³ 15 minute(s).

STEL: 75 ppm 15 minute(s).

TWA: 154 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

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Derived effect levels

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|--|------|----------------------|--------------------------------|------------|----------|
| Zinc Powder – Zinc Dust | DNEL | Long term Inhalation | 10 - 20 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 68 - 98 mg/kg | Workers | Systemic |
| xylene | DNEL | Long term Inhalation | 62 - 92 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 165 - 195 mg/kg | Workers | Systemic |
| Bisphenol-A- (Chloromethyl) Epoxy resin (MW ≤ 700) | DNEL | Long term Inhalation | 2.75 - 27.25 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 6.67 - 23.33 mg/kg | Workers | Systemic |
| 2-butoxyethanol | DNEL | Long term Inhalation | 83 - 113 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 60 - 90 mg/kg | Workers | Systemic |
| 4-Methyl-2-pentanone | DNEL | Long term Inhalation | 68 - 98 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 3.2 - 26.8 mg/kg | Workers | Systemic |

Predicted effect concentrations

| Product/ingredient name | Compartment detail | Value | Method detail |
|---|------------------------|----------------------|---------------|
| Zinc Powder – Zinc Dust | Fresh water | -14.98 - 15.02 mg/l | - |
| | Marine water | -14.99 - 15.01 mg/l | - |
| | Fresh water sediment | 102.8 - 132.8 mg/kg | - |
| | Marine water sediment | 41.5 - 71.5 mg/kg | - |
| | Soil | 20.6 - 50.6 mg/kg | - |
| | Sewage Treatment Plant | -14.9 - 15.1 mg/l | - |
| xylene | Fresh water | -14.67 - 15.33 mg/l | - |
| | Marine water | -14.67 - 15.33 mg/l | - |
| | Fresh water sediment | -2.54 - 27.46 mg/kg | - |
| | Marine water sediment | -2.54 - 27.46 mg/kg | - |
| | Soil | -12.69 - 17.31 mg/kg | - |
| | Intermittent | -14.67 - 15.33 mg/l | - |
| | Sewage Treatment Plant | -8.42 - 21.58 mg/l | - |
| Bisphenol-A- (Chloromethyl) Epoxy resin (MW ≤ 700) | Fresh water | -14.99 - 15.01 mg/l | - |
| | Marine water | -15 - 15 mg/l | - |
| | Fresh water sediment | -14 - 16 mg/kg | - |
| | Marine water sediment | -14.9 - 15.1 mg/kg | - |
| | Soil | -14.8 - 15.2 mg/kg | - |
| | Intermittent | -14.98 - 15.02 mg/l | - |
| | Sewage Treatment Plant | -5 - 25 mg/l | - |

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|------------------------|------------------------|----------------------|-------------------|
| 2-butoxyethanol | Fresh water | -6.2 - 23.8 mg/l | - |
| | Marine water | -14.12 - 15.88 mg/l | - |
| | Fresh water sediment | 19.6 - 49.6 mg/kg | - |
| | Soil | -11.87 - 18.13 mg/kg | - |
| | Intermittent | -5.9 - 24.1 mg/l | - |
| | Sewage Treatment Plant | 448 - 478 mg/l | - |
| | 4-Methyl-2-pentanone | Fresh water | -14.4 - 15.6 mg/l |
| Marine water | | -14.94 - 15.06 mg/l | - |
| Fresh water sediment | | -6.73 - 23.27 mg/kg | - |
| Marine water sediment | | -14.17 - 15.83 mg/kg | - |
| Soil | | -13.7 - 16.3 mg/kg | - |
| Intermittent | | -13.5 - 16.5 mg/l | - |
| Sewage Treatment Plant | | 12.5 - 42.5 mg/l | - |
| 2-methylpropan-1-ol | Fresh water | -14.6 - 15.4 mg/l | - |
| | Marine water | -14.96 - 15.04 mg/l | - |
| | Fresh water sediment | -13.48 - 16.52 mg/kg | - |
| | Marine water sediment | -14.85 - 15.15 mg/kg | - |
| | Soil | -14.93 - 15.07 mg/kg | - |
| | Intermittent | -4 - 26 mg/l | - |
| | Sewage Treatment Plant | -5 - 25 mg/l | - |

Personal protective equipment

Skin and body: Personnel should wear antistatic professional long-sleeved clothing made of natural fibres or of high-temperature-resistant synthetic fibres and safety footwear.

Hands: Wear suitable gloves. Recommended, gloves (breakthrough time) > 8 hours: Viton, Responder, nitrile rubber, 4H, Teflon. May be used, gloves (breakthrough time) 4 - 8 hours: neoprene, butyl rubber. Not recommended, gloves (breakthrough time) < 1 hour: polyvinyl alcohol (PVA), PVC. For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and considers the conditions of use, as included in the user's risk assessment.

Eyes: Use safety eyewear designed to protect against splash of liquids.

Respiratory system: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use respiratory mask with charcoal and dust filter when spraying this product (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoal filter.

9. Physical and chemical properties

Physical state: Viscous liquid

Odor: Characteristic

Color: Gray

Flash point: 24 °C

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Density: 2350 kg/m³

Relative density: 2,350 Kg/l

Viscosity Kinematic at 20 °C: N/A

Viscosity Kinematic at 40 °C: >20,5 cSt

Explosion limits: N/A

Solubility: Insoluble in the following materials: cold water and hot water.

VOC: 386,46 g/l

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7). Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations EC Regulation 1272/2008 (CLP) and classified for toxicological hazards accordingly. See sections 2 and 15 for details. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, rufescence, edema, pain, lachrymation, drowsiness in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Swallowing may cause nausea, diarrhea, vomiting, gastro-intestinal irritation and chemical pneumonia.

Contains: Bisphenol-A-(Chloromethyl) Epoxy resin (MW ≤ 700). May produce an allergic reaction.

Acute toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|----------------------------------|---------|----------|
| Xylene | LC50 (Inhalation Gas.) 5000 ppm | Rat | 4 hours |
| | LC50 (Inhalation Vapor) 6350 ppm | Rat | 4 hours |
| | LD50 (Dermal) 4350 mg/kg | Rabbit | 4 hours |
| | LD50 (Oral) 3523 mg/kg | Rat | 4 hours |
| 4-Methyl-2-pentanone | LD50 (Oral) 2080 mg/kg | Rat | 4 hours |
| | LD50 (Dermal) 16000 mg/kg | Rabbit | 4 hours |
| | LC50 (Inhalation) 8.2 mg/l | Rat | 4 hours |
| Bisphenol-A-(Chloromethyl) Epoxy resin (MW ≤ 700) | LD50 (Dermal) >2000 mg/kg | Rat | 4 hours |
| | LD50 (Oral) >2000 mg/kg | Rat | 4 hours |
| | LD50 (Dermal) >2000 mg/kg | Rabbit | 4 hours |
| 2-Methylpropan-1-ol | Acute LD50 (Oral) 3.100 mg/kg | Rat | 4 hours |
| | LD50 (Dermal) 3.392 mg/kg | Rabbit | 4 hours |

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|-----------------|---------------------------|--------|---------|
| 2-butoxyethanol | LD50 (Oral) 1414 mg/kg | Rat | 4 hours |
| | LD50 (Dermal) 1060 mg/kg | Rabbit | 4 hours |
| | LC50 (Inhalation) 11 mg/l | Rat | 4 hours |

12. Ecological information

Aquatic ecotoxicity

| Product/ingredient name | Test | Result | Species | Exposure |
|---|--------------|--|---|----------|
| Zinc Powder – Zinc Dust | Mortality | Acute LC50 0.1 - 1 mg/l Fresh water | Fish - Bluegill -Lepomis | 96 hours |
| | | EC50 0.1 - 1 mg/l | Crustacea Daphnia magna | 48 hours |
| | | EC50 0.1 - 1 mg/l | Algae/Aquatic Plants Pseudokirchneriella subcapitata | 72 hours |
| Xylene | Mortality | Acute LC50 13.5 mg/L Fresh water | Fish - Bluegill -Lepomis macrochirus-1.1g | 96 hours |
| | | EC50 3.4 mg/l | Crustacea Daphnia magna | 48 hours |
| | | EC50 10 mg/l | Algae | 72 hours |
| Bisphenol-A (Chloromethyl) Epoxy resin (MW ≤ 700) | | Acute EC50 1 - 10 mg/l | Algae | 72 hours |
| | | Acute EC50 1 - 10 mg/l | Crustacea Daphnia magna | 48 hours |
| | | Acute LC50 1 - 10 mg/l | Fish - fathead minnow (Pimephales promelas) | 96 hours |
| 4-Methyl-2-pentanone | | LC50 900 mg/l | Fish - Bluegill -Lepomis | 48 hours |
| | | EC50 862 mg/l | Crustacea Daphnia magna | 24 hours |
| | | EC50 980 mg/l | Algae | 48 hours |
| 2-butoxyethanol | | LC50 1490 mg/l | Fish - Bluegill -Lepomis macrochirus | 96 hours |
| | | EC50 1815 mg/l | Crustacea Daphnia magna | 48 hours |
| | | EC50 911 mg/l | Algae/Aquatic Plants Pseudokirchneriella subcapitata | 72 hours |
| 2-Methylpropan-1-ol | Population | Acute EC50 1250 mg/l | Algae | 48 hours |
| | Intoxication | Acute EC50 1439 mg/l | Crustacea Daphnia magna | 48 hours |
| | Mortality | Fresh water Acute LC50 2030 mg/l Fresh water | Fish - Bluegill -Lepomis macrochirus-1.1g | 96 hours |

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Ecological information

Biodegradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| Zinc Powder – Zinc Dust | - | - | Not available |
| Xylene | - | - | Readily |
| Bisphenol-A (Chloromethyl) Epoxy resin (MW ≤ 700) | - | - | Not readily |
| 4-Methyl-2-pentanone | - | - | Readily |

Based on available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

Bio accumulative potential

| Product/ingredient name | LogKow | BCF | Potential |
|--|-------------|-------------|-----------|
| Xylene | 3.12 | 8.1 to 25.9 | Low |
| Bisphenol-A (Chloromethyl) Epoxy resin (MW ≤ 700) | 2.64 - 3.78 | 31 | Low |
| 2-Methylpropan-1-ol | 0.76 | 3 | Low |
| 4-Methyl-2-pentanone | 1.31 | 2 | Low |

13. Disposal considerations

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

European waste catalogue (EWC): 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

14. Transport information

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 accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

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International transport regulations

| | UN Number | Proper shipping name | Transport hazard class(es) | Packing group | Environmental hazards | Additional information |
|-----------------|-----------|----------------------|--|---------------|-----------------------|--|
| ADR/RID Class | UN 1263 | PAINT | 3   | III | Yes | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Tunnel restriction code (D/E) |
| IMDG/IMO Class | UN 1263 | PAINT | 3   | III | Yes | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules (EmS) F-G, S-N |
| ICAO/IATA Class | UN 1263 | PAINT | 3   | III | Yes | The environmentally hazardous substance mark may appear if required by other transportation regulations. |

15. Regulatory information

EU regulations: The product is classified and labeled for supply in accordance with EU Regulation (EC) No. 1272/2008 (REACH) Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

Other EU regulations

Europe inventory: At least one component is not listed

Black List Chemicals: Not listed

Priority List Chemicals: Not determined

Industrial emissions (integrated pollution prevention and control) – Air: Listed

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

Industrial use: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

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16. Other information

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

EUH statement = CLP-specific Hazard statement

RRN = REACH Registration Number

DNEL = Derived No Effect Level

CEPE Classification: 1

Full text of abbreviated H statements referred to in sections 2 and 3:

H225 Highly flammable liquid and vapor

H226 Flammable liquid and vapor

H302 Harmful if swallowed

H312 Harmful in contact with skin

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H319 Causes serious eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

EUH066 Repeated exposure may cause skin dryness or cracking

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

Full text of classifications [CLP/GHS]:

Aquatic Acute 1, H400 SHORT-TERM AQUATIC HAZARD - Category 1

Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1

Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2

Acute Tox. 4, H302 ACUTE TOXICITY (Oral) - Category 4

Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

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Safety Data Sheet

This Safety Data Sheet is prepared in accordance with according to Regulation (EC) No. 1272/2008 [CLP/GHS].

Notice to whom it may concern:

Your attention and information in this MSDS are based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this MSDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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Safety Data Sheet

1. Chemicals and enterprise identification

Product name and code: **PHILAZINC PHZC 7000 - Comp. B**

Application of the substance: **Two component epoxy anticorrosive zinc rich primer**

Product use: **Coating hardener / Solvent-borne**

Supplier/manufacturer: **Philadelphia Coatings LLC**

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Chemical emergency response numbers: 1-800-255-3924 for Domestic and +1-813-248-0585 for International.

Shipments of hazardous materials within the listed countries should reference ChemTel's in-county phone numbers:

Australia: 1-300-954-583, Brazil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086, Mexico: 01-800-099-0731

2. Hazards identification

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 (REACH), Annex II and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Pictograms:



Signal word: Danger

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Safety Data Sheet

Hazard classification (GHS) and indication:

| | | | |
|--|---|------|---|
| Flammable liquids | Category 3 | H226 | Flammable liquid and vapour |
| Acute Toxicity Inhalation | Category 4 | H330 | Fatal if inhaled |
| Acute toxicity/Inhalation (Dust and Mists) | Category 4 | H332 | Harmful if inhaled |
| Acute toxicity Oral | Category 4 | H302 | Harmful if swallowed |
| Aspiration Hazard | Category 1 | H304 | May be fatal if swallowed and enters airways |
| Acute toxicity Dermal | Category 4 | H312 | Harmful in contact with skin |
| Skin corrosion/irritation | Category 1 | H314 | Causes severe skin burns and eye damage |
| Skin corrosion/irritation | Category 2 | H315 | Causes skin irritation |
| Skin sensitizers | Category 1 | H317 | May cause an allergic skin reaction |
| Serious eye damage/eye irritation | Category 2 | H319 | Causes serious eye irritation |
| Respiratory sensitization | Category 1 | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| Specific target organ toxicity - single exposure | Category 3 (respiratory tract irritation) | H335 | May cause respiratory irritation |
| Reproductive Toxicity | Category 1 | H360 | May damage fertility or the unborn child |
| Aquatic environmental hazard/Short-term/Acute | Category 3 | H402 | Harmful to aquatic life |

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Safety Data Sheet

3. Ingredient/composition information

| Chemical name | Notes | CAS number | EC number | % by weight | Classification |
|--|-------|------------|-----------|-------------|--|
| Xylene (Mixture of Isomers) | C | 1330-20-7 | 215-535-7 | 2.5 - 10 | Flam. Liq. 3, H226 Acute Tox. 4, H312, Acute Tox. 4, H332 Skin. Irrit. 2, H315 Eye Irrit. 2, H319 |
| 2,4,6-tris(dimethylaminomethyl) phenol | | 90-72-2 | 202-013-9 | 10 - 25 | Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin. Irrit. 2, H315 |
| Diethylenetriamine | - | 111-40-0 | 203-865-4 | 1 - 2.5 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin. Irrit. 1, H314 Skin Sens. 1, H317 Acute Tox. 2, H330 STOT SE 3, H335 Resp. Sens. 1, H334 Rep. Tox. 1, H360 Aquatic Acute 3, H402 |
| Ethylenediamine | - | 107-15-3 | 203-468-6 | 1 - 2.5 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Resp. Sens. 1, H334 Skin. Corr. 1B, H314 Skin Sens. 1, H317 |

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First-aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical advice/attention.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. Get medical advice/attention.

Inhalation: Get medical advice/attention immediately. Remove to fresh air away from the accident scene. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Take suitable precautions for rescue workers.

Ingestion: If swallowed, have the subject drink as much water as possible. Get medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting unless explicitly authorized by a doctor.

5. Fire-fighting measures

Extinguishing media: Recommended: alcohol-resistant foam, CO₂, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapors and protect those trying to stem the leak.

Extinguishing media not to be used: Do not use water jet. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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Recommendations: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Advice for firefighters: Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Special protective equipment for firefighters: Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6. Accidental release measures

Personal precautions: Exclude sources of ignition and ventilate the area. If there are no contraindications, spray powder with water to prevent the formation of dust. Avoid breathing vapors, mists or gases.

Refer to protective measures listed in sections 7 and 8.

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 (see section 13).

Spill: Preferably clean with a detergent. Avoid using solvents.

Environmental precautions: The product must not penetrate the sewer system or meet surface water or ground water.

Methods and material for containment and cleaning up: Use spark-proof mechanical equipment to collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired.

Check incompatibility for container material in section 7.

Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling: Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. To dissipate static electricity during transfer, earth drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded.

Electrical equipment should be protected to the appropriate standard.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

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Safety Data Sheet

When operators, whether spraying or not, must work inside the spray booth, ventilation is unlikely to be enough to control particulates and solvent vapor in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapor concentration has fallen below the exposure limits.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

Storage: Store in accordance with local regulations. Observe label precautions. Store in a dry, cool and well-ventilated area.

Keep away from heat and direct sunlight. No smoking.

Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not empty into drains. Keep away from sources of ignition.

Keep away from oxidizing agents, strong alkalis, strong acids.

8. Exposure controls/personal protection

Engineering measures: Provide adequate ventilation. Where reasonably practicable, this should be achieved using local exhaust ventilation and good general extraction. If these are not enough to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

Ingredient name & Occupational exposure limits

Xylene:

EH40/2005-WELs (12/2011).

STEL: 441 mg/m³ 15 minutes.

STEL: 100 ppm 15 minutes.

TWA: 220 mg/m³ 8 hours.

TWA: 50 ppm 8 hours.

Derived effect levels

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|--|------|----------------------|----------------------------------|--------------------|----------------------|
| xylene | DNEL | Long term Inhalation | 62 - 92 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 165 - 195 mg/kg | Workers | Systemic |
| 2,4,6-tris(dimethylaminomethyl) phenol | | Long term Inhalation | -14.69 - 15.31 mg/m ³ | Workers Workers | Systemic Systemic |
| | | Long term Inhalation | 0.4 - 30.4 mg/m ³ | Workers | Systemic |
| Diethylenetriamine | | Long term Inhalation | 0.4 - 30.4 mg/m ³ | Workers | Systemic |
| | | Long term Dermal | -3.6 - 26.4 mg/kg | Workers | Systemic |

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Safety Data Sheet

Predicted effect concentrations

| Product/ingredient name | Compartment detail | Value | Method detail |
|--|------------------------|----------------------|---------------|
| xylene | Fresh water | -14.67 - 15.33 mg/l | - |
| | Marine water | -14.67 - 15.33 mg/l | - |
| | Fresh water sediment | -2.54 - 27.46 mg/kg | - |
| | Marine water sediment | -2.54 - 27.46 mg/kg | - |
| | Soil | -12.69 - 17.31 mg/kg | - |
| | Intermittent | -14.67 - 15.33 mg/l | - |
| | Sewage Treatment Plant | -8.42 - 21.58 mg/l | - |
| 2,4,6-tris(dimethylaminomethyl) phenol | Fresh water | -14.92 - 15.08 mg/l | - |
| | Marine water | -14.99 - 15.01 mg/l | - |
| | Fresh water sediment | N/A | - |
| | Marine water sediment | N/A | - |
| | Soil | N/A | - |
| | Intermittent | -14.16 - 15.84 mg/l | - |
| | Sewage Treatment Plant | -14.8 - 15.2 mg/l | - |
| Diethylenetriamine | Fresh water | -14.44 - 15.56 mg/l | - |
| | Marine water | -14.94 - 15.06 mg/l | - |
| | Fresh water sediment | 1057 - 1087 mg/kg | - |
| | Marine water sediment | 92.2 - 122.2 mg/kg | - |
| | Soil | 199 - 229 mg/kg | - |
| | Intermittent | -14.68 - 15.32 mg/l | - |
| | Sewage Treatment Plant | -9 - 21 mg/l | - |

Personal protective equipment

Skin and body: Personnel should wear antistatic professional long-sleeved clothing made of natural fibres or of high-temperature-resistant synthetic fibres and safety footwear.

Hands: Wear suitable gloves. Recommended, gloves (breakthrough time) > 8 hours: Viton, Responder, nitrile rubber, 4H, Teflon. May be used, gloves (breakthrough time) 4 - 8 hours: neoprene, butyl rubber. Not recommended, gloves (breakthrough time) < 1 hour: polyvinyl alcohol (PVA), PVC. For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and considers the conditions of use, as included in the user's risk assessment.

Eyes: Use safety eyewear designed to protect against splash of liquids.

Respiratory system: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use respiratory mask with charcoal and dust filter when spraying this product (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoal filter.

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Safety Data Sheet

9. Physical and chemical properties

Physical state: Viscous liquid

Odor: Characteristic

Color: N/A

Flash point: 27 °C

Density: 920 - 980 kg/m³

Relative density: 0.92 - 0.98

Viscosity Kinematic at 20 °C: N/A

Viscosity Kinematic at 40 °C: N/A

Explosion limits: N/A

Solubility: Insoluble in the following materials: cold water and hot water.

VOC: 114,95 g/l

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7). Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations EC Regulation 1272/2008 (CLP) and classified for toxicological hazards accordingly. See sections 2 and 15 for details. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, rufescence, edema, pain, lachrymation, drowsiness in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Swallowing may cause nausea, diarrhea, vomiting, gastro-intestinal irritation and chemical pneumonia.

Acute toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|----------------------------------|---------|----------|
| Xylene | LC50 (Inhalation Gas.) 5000 ppm | Rat | 4 hours |
| | LC50 (Inhalation Vapor) 6350 ppm | Rat | 4 hours |
| | LD50 (Dermal) 4350 mg/kg | Rabbit | 4 hours |
| | LD50 (Oral) 3523 mg/kg | Rat | 4 hours |
| Diethylenetriamine | LD50 (Oral) 1080 mg/kg | Rat | 4 hours |
| | LD50 1090 mg/kg | Rabbit | 4 hours |
| 2,4,6-tris(dimethylaminomethyl) phenol | LD50 (Oral) 1200 mg/kg | Rat | 4 hours |

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Safety Data Sheet

12. Ecological information

Aquatic ecotoxicity

| Product/ingredient name | Test | Result | Species | Exposure |
|--|-----------|----------------------|--------------------------|----------|
| Xylene | Mortality | Acute LC50 13.5 mg/L | Fish - Bluegill -Lepomis | 96 hours |
| | | Fresh water | macrochirus-1.1g | |
| | | EC50 3.4 mg/l | Crustacea Daphnia magna | 48 hours |
| | | EC50 10 mg/l | Algae | 72 hours |
| 2,4,6-tris(dimethylaminomethyl) phenol | | LC50 345 mg/L | Fish | 96 hours |

Ecological information

Biodegradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| Xylene | - | - | Readily |

Based on available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

Bio accumulative potential

| Product/ingredient name | LogKow | BCF | Potential |
|--|--------|-------------|-----------|
| Xylene | 3.12 | 8.1 to 25.9 | Low |
| 2,4,6-tris(dimethylaminomethyl) phenol | 0.77 | 3 | Low |

13. Disposal considerations

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

European waste catalogue (EWC): 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

14. Transport information

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 accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

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Safety Data Sheet

International transport regulations

| | UN Number | Proper shipping name | Transport hazard class(es) | Packing group | Environmental hazards | Additional information |
|-----------------|-----------|----------------------|--|---------------|-----------------------|--|
| ADR/RID Class | UN 1263 | PAINT | 3  | III | No | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Tunnel restriction code (D/E) |
| IMDG/IMO Class | UN 1263 | PAINT | 3  | III | No | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules (EmS) F-E, S-E |
| ICAO/IATA Class | UN 1263 | PAINT | 3  | III | No | The environmentally hazardous substance mark may appear if required by other transportation regulations. |

15. Regulatory information

EU regulations: The product is classified and labeled for supply in accordance with EU Regulation (EC) No. 1272/2008 (REACH) Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

Other EU regulations

Europe inventory: At least one component is not listed

Black List Chemicals: Not listed

Priority List Chemicals: Not determined

Industrial emissions (integrated pollution prevention and control) – Air: Listed

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

Industrial use: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

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Safety Data Sheet

16. Other information

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

EUH statement = CLP-specific Hazard statement

RRN = REACH Registration Number

DNEL = Derived No Effect Level

CEPE Classification: 1

Full text of abbreviated H statements referred to in sections 2 and 3:

H226 Flammable liquid and vapor

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

H319 Causes serious eye irritation

H330 Fatal if inhaled

H332 Harmful if inhaled

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

H360 May damage fertility or the unborn child

H402 Harmful to aquatic life

Full text of classifications [CLP/GHS]:

Aquatic Acute 1, H402 SHORT-TERM AQUATIC HAZARD - Category 1

Acute Tox. 4, H302 ACUTE TOXICITY (Oral) - Category 4

Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4

Skin. Irrit. 1, H314 SKIN CORROSION/IRRITATION - Category 1

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Acute Tox. 2, H330 ACUTE TOXICITY (inhalation) - Category 4

Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4

Resp. Sens. 1, H334 RESPIRATORY SENSITIZATION - Category 1

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Rep. Tox. 1, H360 REPRODUCTIVE TOXICITY - Category 1

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