

**SAFETY DATA SHEET (SDS)****Section 1. Identification**

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| Product identifier | EPOXY PRIMER, Part A |
| Other means of identification | EPPR-000-A |
| Recommended use and restrictions on use | Floor Coating |
| Initial supplier identifier | LabSurface. 101-1079 des Forges, Terrebonne, J6Y0J9, Qué (Canada) Tél. (450) 966-9000 |
| Emergency telephone number/restriction on use | Canada – CANUTEC Number 24 hours 613-996-6666 |

Section 2. Hazard Identification**Classification of hazardous product (name of the category or subcategory of the hazard class)**

Acute toxicity oral (Category 4)
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2B)
Skin sensitization (Category 1)

Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)**Warning**

H302 Harmful if swallowed.
H315 + H320 Causes skin and eye irritation.
H317 May cause an allergic skin reaction.

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash hands/nails/face/eyes thoroughly after handling. P270 Do not eat, drink or smoke when using this product P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear gloves/protective clothing/gloves/eye protection/face protection.

Response

IF SWALLOWED: P301 + P312 Immediately call a Poison Center/doctor if you feel unwell. P330 Rinse mouth.
IF ON SKIN: P302 + P352 Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice attention P362 + P364 Take off contaminated clothing and wash it before reuse.
IF IN EYES: P305 + P351 + P338 Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention.

Disposal

P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other hazards known | None**Section 3. Composition/Information on Ingredients**

| Chemical name (common name/synonyms) | CAS number or other | Concentration (%) |
|---|----------------------------|--------------------------|
| Polymère en Bisphénol A / Epichlorohydrine | 25068-38-6 | > 70 % |
| Alkil ether glycidyl | 68609-97-2 | < 30 % |

Section 4. First-Aid Measures

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| Inhalation | IF INHALED: If overexposure remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. If symptoms persist, seek medical attention. |
| Ingestion | IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting. If vomiting occurs, prevent aspiration of vomit. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. |
| Skin contact | IF ON SKIN: Remove contaminated clothing, wash immediately with soap and water (20 - 30 minutes). If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. |
| Eye contact | IF IN EYES, Rinse cautiously with water for several minutes (20 - 30 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| Most important symptoms and effects (acute or delayed) | Harmful if swallowed. Causes skin and eye irritation. May cause an allergic skin reaction. |
| Indication of immediate medical attention/special treatment | In all cases, call a doctor. Do not forget this document. |

Section 5. Fire-Fighting Measures**Specific hazards of the hazardous product (hazardous combustion products)**

Smoke, fume, oxides of carbon.

Suitable and unsuitable extinguishing media



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| In case of fire: Use Carbon dioxide (CO ₂), dry chemical, water and alcohol resistant foam. | | | |
| Special protective equipment and precautions for fire-fighters | | | |
| During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required. | | | |
| Section 6. Accidental Release Measures | | | |
| Personal precautions, protective equipment and emergency procedures | | | |
| Evacuate non-emergency personnel. Isolate the area and prevent access. Control source of the leak. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). Prevent the spill spread into drains, sewers, water supplies, or soil. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. | | | |
| Methods and materials for containment and cleaning up | | | |
| Avoid prolonged exposure. Stop leak if you can do it without risk. Spill should be contained with inert material and disposed into suitable retaining area. Do not touch or walk through spilled material. Small volumes of liquid may be contained or absorbed into an appropriate absorbent. Keep away from all watercourses. Do not flush down storm or sanitary sewer. Take precautionary measures against static discharges. Dispose of in accordance with local, provincial and federal regulations. | | | |
| Section 7. Handling and Storage | | | |
| Precautions for safe handling | | | |
| Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands/nails/ face/eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear gloves/protective clothing/gloves/eye protection/face protection. | | | |
| Conditions for safe storage, including any incompatibilities | | | |
| Store in a cool, well-ventilated area. Keep container closed when not in use. Do not handle or store near open flames, heat or other sources of ignition. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks. Storage temperature: 16 - 27 °C. | | | |
| Section 8. Exposure Controls/Personal Protection | | | |
| Control parameters (biological limit values or exposure limit values and source of those values) | | | |
| Exposure limits: ACGIH – TLV-TWA No data available. | | | |
| Appropriate engineering controls | | | |
| Use product in well-ventilated areas. Do not spray the product. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Supply emergency safety/quick-drench shower, eyewash station and washing facilities available in work area and near handling area. Where such systems are not effective, wear suitable personal protection equipment which performs satisfactorily and meets recognized standards. | | | |
| Individual protection measures/personal protective equipment | | | |
| Gloves: Neopren gloves or equivalent; Clothing: Shirts with long sleeves, long pants; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown; Equipment: Safety glasses, chemical resistant. Special instructions for protection and hygiene: Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use. Educate and train employees in the safe use and handling of this product. Follow all label instructions. | | | |
| Section 9. Physical and Chemical Properties | | | |
| Appearance, physical state/colour | Liquid | Vapour pressure | Not available |
| Odour | Faint odor | Vapour density | Not available |
| Odour threshold | Not available | Relative density | Not available |
| pH | Not available | Solubility | Not soluble |
| Melting/freezing point | Not available | Partition coefficient - n-octanol/water | Not available |
| Initial boiling point/range | Not available | Auto-ignition temperature | Not available |
| Flash point | > 100°C | Decomposition temperature | Not available |
| Evaporation rate | Not available | Viscosity | Not available |
| Flammability (solids and gases) | Not available | VOC | Not available |
| Upper and lower flammability/explosive limits | Not available | Other | None known |
| Section 10. Stability and Reactivity | | | |
| Reactivity | | | |
| Stable under normal conditions. | | | |
| Chemical stability | | | |
| Yes, Stable under the recommended storage and handling conditions prescribed. | | | |
| Possibility of hazardous reactions | | | |
| Non under normal conditions of storage and use. | | | |
| Conditions to avoid (static discharge, shock or vibration) | | | |
| Excess heat. | | | |
| Incompatible materials | | | |
| Acids, bases, amines, oxidizing agents. | | | |



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| Hazardous decomposition products | |
| Chloro hydrogen, carbon oxides | |
| Section 11. Toxicological Information | |
| Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact) | |
| Harmful if swallowed. Causes skin and eye irritation. May cause an allergic skin reaction. | |
| Symptoms related to the physical, chemical and toxicological characteristics | |
| No specific information available. | |
| Delayed and immediate effects (chronic effects from short-term and long-term exposure) | |
| Skin Sensitization – May cause allergic skin reaction. Skin disorders and Allergies. Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA; Reproductive Toxicity – No data available; Specific Target Organ Toxicity — Single Exposure – No data available; Specific Target Organ Toxicity — Repeated Exposure – No data available; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available. | |
| Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀) | |
| CAS 25068-38-6 LD ₅₀ Oral - Rat - > 15,000 mg/kg; LD ₅₀ Dermal – Rabbit – 23,000 mg/kg; LC ₅₀ Inhalation – has not been determined; CAS 68609-97-2: LD ₅₀ Oral - Rat - > 17,100 mg/kg; LD ₅₀ Dermal – Rabbit – 4,500 mg/kg; ATE not available in this document. | |
| Section 12. Ecological Information | |
| Ecotoxicity (aquatic and terrestrial information) | |
| Toxicity to fish CAS: 25068-38-6 LC ₅₀ : 1 – 10 mg/l (in the most sensitive species tested)/ LC ₅₀ 2 mg/l (Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour ; CAS 68609-97-2: LC ₅₀ : 0.002 mg/l 96h. | |
| Toxicity to Aquatic Invertebrates: CAS: 25068-38-6 EC ₅₀ : 1.8 mg/l (Water flea (Daphnia magna) 48h); CAS 68609-97-2: EC ₅₀ : 0.003 mg/l 96h (Daphnia magna) | |
| Toxicity to Aquatic Plants: CAS: 25068-38-6 EC ₅₀ : 11 mg/l (Fresh water algae (Scenedesmus capricornutum) static test, 72h); | |
| Toxicity to Bacteria CAS: 25068-38-6 IC ₅₀ : >42.6 mg/l, (Respiration rates, 18h). | |
| Persistence and degradability | CAS: 25068-38-6 12%, Readily biodegradable; |
| Bioaccumulative potential | CAS: 25068-38-6 Bio-concentration potential is moderate; CAS 68609-97-2: log Kow: 7.25, BCF: 934.9 |
| Mobility in soil | CAS: 25068-38-6 Potential for mobility in soil is low; CAS 68609-97-2: Koc: 12830 |
| Other adverse effects | No data available |
| Section 13. Disposal Considerations | |
| Information on safe handling for disposal/methods of disposal/contaminated packaging | |
| Dispose of contents/container into safe container in accordance with local, regional or national regulations. | |
| Section 14. Transport Information | |
| UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations | |
| Not regulated | |
| UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime) | |
| Not regulated | |
| UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air) | |
| Not regulated | |
| Special precautions (transport/conveyance) | None |
| Environmental hazards (IMDG or other) | None |
| Bulk transport (usually more than 450 L in capacity) | None |
| Section 15. Regulatory Information | |
| Safety/health Canadian regulations specifics | This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR). |
| Environmental Canadian regulations specifics | Refer to Section 3 for ingredient(s) of the DSL |
| Safety/health/environmental outside regulations specifics | |
| United States OSHA information: This product is regulated according to OSHA (29 CFR). | |
| United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14. | |
| United States TCSA information: Refer to the ingredients listed in Section 3. | |
| Section 16. Other Information | |
| Date of the latest revision of the safety data sheet | February 04, 2018 - version 1 |
| References | Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.eurpea.eu |
| Abbreviations | |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ATE | Acute toxicity estimate |
| CAS | Chemical Abstract Service |
| DSL | Domestic Substance List |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods Code |



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| LC | Lethal concentration |
| LD | Lethal Dosage |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program (U.S.A.) |
| OSHA | Occupational Safety and Health Administration (U.S.A.) |
| PEL | Permissible Exposure Limit |
| STEL | Short-term Exposure Limit |
| TDG | Transport of dangerous goods in Canada |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| TWA | Time Weighted Average |
| WHMIS | Workplace Hazardous Materials Information System |

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SAFETY DATA SHEET (SDS)

Section 1. Identification

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| Product identifier | EPOXY PRIMER, Part B |
| Other means of identification | EPPR-B |
| Recommended use and restrictions on use | Floor Coating |
| Initial supplier identifier | LabSurface. 101-1079 des Forges, Terrebonne, J6Y0J9 Qué (Canada) Tél. (450) 966-9000 |
| Emergency telephone number/restriction on use | Canada – CANUTEC Number 24 hours 613-996-6666 |

Section 2. Hazard Identification

Classification of hazardous product (name of the category or subcategory of the hazard class)

Flammable liquids (Category 4)
Acute toxicity, oral, dermal and inhalation (Category 4)
Skin corrosion/irritation (Category 1A)
Skin sensitisation (Category 1)
Serious eye damage/eye irritation (Category 1)
Sensitisation respiratory (Category 1)
Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3)
Reproductive toxicity (Category 1B)
Reproductive toxicity, effects on or via lactation (Additional category)
Hazardous to the aquatic environment acute hazard (Category 3)
Hazardous to the aquatic environment short/long term hazard (Category 1)

Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)



Warning

H227 Combustible liquid.
H302+H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin irritation.
H318 Causes serious eye damage.
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.
H362 May cause harm to breast-fed children.
H402 Harmful to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Prevention

P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources No smoking P260+P261 Do not/Avoid breathing dust/fume/gas/mist/vapors/spray. P263 Avoid contact during pregnancy and while nursing P264 Wash hands/nails/face/eyes thoroughly after handling. P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well ventilated area. P272 Contaminated work clothing should not be allowed out of the work place. P273 Avoid release to the environment. P280 Wear gloves/protective clothing/gloves/eye protection/face protection. P284 (In case of inadequate ventilation) wear respiratory protection.

Response

IF SWALLOWED: P301 + P312 Immediately call a Poison Center/doctor if you feel unwell. P330 +P331 Rinse mouth. Do NOT induce vomiting
IF ON SKIN: P302 + P352 Wash with plenty of water. P312 call a POISON CENTER if you feel unwell. P303+P361+P353 If on skin (or hair): take off immediately all contaminated clothing. Rinse skin with water (or shower) P362 + P364 Take off contaminated clothing and wash it before reuse. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
IF INHALED: P304 + P340 Remove person to fresh air and keep comfortable for breathing. P312 Call a doctor if you feel unwell. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER /doctor.
IF IN EYES: P305 + P351 + P338 Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor.
IF EXPOSED OR CONCERNED: P308 + P313 get medical advice/attention.
IN CASE OF FIRE P370 + P378 Use manufacturer/supplier or the competent authority to specify appropriate media
ENVIRONMENT P391 Collect spillage



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| Storage P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. | | |
| Disposal P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations. | | |
| Other hazards known | None | |
| Section 3. Composition/Information on Ingredients | | |
| Chemical name (common name/synonyms) | CAS number or other | Concentration (%) |
| Benzyl alcohol | 100-51-6 | 25 – 40 % |
| M-Phenylenebis(Methylamine) | 1477-55-0 | 15 – 25 % |
| L'isophorone Diamine | 2855-13-2 | 10 – 25 % |
| Paratertiarybutylphenol | 98-54-4 | 3 – 7 % |
| Hydroxy Benzoic acid | 65-85-0 | 1 – 5 % |
| Trade Secret | - | < 10 % |
| Bisphénol A | 80-05-7 | 1 – 5 % |
| 2-piperazin-1-ethylamine | 140-31-8 | 3 - 7 % |
| Section 4. First-Aid Measures | | |
| Inhalation | IF INHALED: If overexposure remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration or give oxygen by trained personnel. If symptoms persist, seek medical attention. | |
| Ingestion | IF SWALLOWED: Immediately call a doctor. Prevent aspiration of vomit. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. | |
| Skin contact | IF ON SKIN: Remove contaminated clothing, wash immediately with soap and water (20 - 30 minutes). If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. Discard or decontaminate footwear before reuse. If symptoms persist, seek medical attention | |
| Eye contact | IF IN EYES, Rinse cautiously with water for several minutes (20 - 30 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. Do not attempt to neutralize with chemical agents. If eye irritation persists: Get medical attention. | |
| Most important symptoms and effects (acute or delayed) | Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin irritation. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May damage fertility or the unborn child. May cause harm to breast-fed children. | |
| Indication of immediate medical attention/special treatment | In all cases, call a doctor. Do not forget this document. | |
| Section 5. Fire-Fighting Measures | | |
| Specific hazards of the hazardous product (hazardous combustion products) | | |
| Smoke, fume. | | |
| Suitable and unsuitable extinguishing media | | |
| In case of fire: Use water. | | |
| Special protective equipment and precautions for fire-fighters | | |
| During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required. | | |
| Section 6. Accidental Release Measures | | |
| Personal precautions, protective equipment and emergency procedures | | |
| Evacuate non-emergency personnel. Isolate the area and prevent access. Control source of the leak. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). Prevent the spill spread into drains, sewers, water supplies, or soil. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. | | |
| Methods and materials for containment and cleaning up | | |
| Avoid prolonged exposure. Stop leak if you can do it without risk. Spill should be contained with inert material and disposed into suitable retaining area. Do not touch or walk through spilled material. Small volumes of liquid may be contained or absorbed into an appropriate absorbent. Keep away from all watercourses. Do not flush down storm or sanitary sewer. Take precautionary measures against static discharges. Dispose of in accordance with local, provincial and federal regulations. | | |
| Section 7. Handling and Storage | | |
| Precautions for safe handling | | |
| Obtain special instructions before use/do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not/Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy and while nursing Wash hands/nails/face/eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Contaminated work clothing should not be allowed out of the work place. Avoid release to the environment. Wear gloves/protective clothing/gloves/eye protection/face protection. (In case of inadequate ventilation) wear respiratory protection | | |
| Conditions for safe storage, including any incompatibilities | | |
| Store in a cool, well-ventilated area. Keep container closed when not in use. Do not handle or store near open flames, heat or other sources of ignition. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not | | |



damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks. Storage temperature: 16 - 27 °C.

Section 8. Exposure Controls/Personal Protection

Control parameters (biological limit values or exposure limit values and source of those values)

Exposure limits: ACGIH – TLV-STEL: CAS 1477-55-0: 0.1 mg/m³

Appropriate engineering controls

Use product in well-ventilated areas. Do not spray the product. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Supply emergency safety/quick-drench shower, eyewash station and washing facilities available in work area and near handling area. Where such systems are not effective, wear suitable personal protection equipment which performs satisfactorily and meets recognized standards

Individual protection measures/personal protective equipment

Gloves: Neopren gloves or equivalent; Clothing: Shirts with long sleeves, long pants; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown; Equipment: Safety glasses, chemical resistant. Special instructions for protection and hygiene: Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use. Educate and train employees in the safe use and handling of this product. Follow all label instructions

Section 9. Physical and Chemical Properties

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|--|---------------|--|---------------|
| Appearance, physical state/colour | Liquid | Vapour pressure | Not available |
| Odour | Amine | Vapour density | Not available |
| Odour threshold | Not available | Relative density | Not available |
| pH | Not available | Solubility | Not soluble |
| Melting/freezing point | Not available | Partition coefficient - n-octanol/water | Not available |
| Initial boiling point/range | Not available | Auto-ignition temperature | Not available |
| Flash point | >110°C | Decomposition temperature | Not available |
| Evaporation rate | Not available | Viscosity | Not available |
| Flammability (solids and gases) | Not available | VOC | Not available |
| Upper and lower flammability/explosive limits | Not available | Other | None known |

Section 10. Stability and Reactivity

Reactivity

Stable under normal conditions.

Chemical stability

Yes, Stable under the recommended storage and handling conditions prescribed.

Possibility of hazardous reactions

Non under normal conditions of storage and use.

Conditions to avoid (static discharge, shock or vibration)

Excess heat.

Incompatible materials

Avoid contact with epoxy resins, oxidizing materials, acids, acrylates, metals, nitrites, ketones, hydrocarbons, aldehydes, alcohol, sodium or calcium hypochlorite.

Hazardous decomposition products

Nitrogen oxides and other acidic gasses.

Section 11. Toxicological Information

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)

Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin irritation. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May damage fertility or the unborn child. May cause harm to breast-fed children.

Symptoms related to the physical, chemical and toxicological characteristics

No specific information available.

Delayed and immediate effects (chronic effects from short-term and long-term exposure)

Skin Sensitization – May cause allergic skin reaction. Skin disorders and Allergies. Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA; Reproductive Toxicity – No data available; Specific Target Organ Toxicity — Single Exposure – No data available; Specific Target Organ Toxicity — Repeated Exposure – No data available; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.

Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)

CAS 100-51-6 LD₅₀ Oral – Rat 1230 mg/kg/ Rabbit 1040 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation – Mouse 5620 ppm 1hr/500 mg/m³; CAS 1477-55-0 LD₅₀ Oral – Rat 930 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation - Rat 700 ppm 1hr; CAS 2855-13-2 LD₅₀ Oral - Rat 1030 mg/kg; LD₅₀ Dermal – Rabbit 1800 mg/kg; LC₅₀ Inhalation Not available; CAS 98-54-4 LD₅₀ Oral - Rat 4000 mg/kg; LD₅₀ Dermal – Rat 2318 mg/kg; LC₅₀ Inhalation Not available; CAS 65-85-0 LD₅₀ Oral - Rat 2565 mg/kg; LD₅₀ Dermal – Rabbit >2000 mg/kg; LC₅₀ Inhalation



– Rat >12.2 mg/L 4hrs (dust); Trade Secret LD₅₀ Oral - Rat - 1300 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation Not available; ATE not available in this document.

Section 12. Ecological Information

Ecotoxicity (aquatic and terrestrial information)

Fish toxicity CAS:100-51-6: LC50: > 100 mg/L (Oryzias latipes, 96h); CAS:1477-55-0: LC50: 75 mg/L (Golden orfe, 96h); CAS: 2855-13-2: LC50: 110 mg/L (Leuciscus idus, 96h); CAS:98-54-4: LC50: 5.1 mg/L (96h, Oryzias latipes); CAS:65-85-0: LC50: 47.3 mg/L (Salmo gairdneri, 96h); Trade Secret: LC50: 0.128 mg/L (Pimephales promelas, 96h).

Invertebrate toxicity CAS: 100-51-6: EC50: 230 mg/L (48h, Daphnia magna); CAS:1477-55-0: 15.2 mg/L (48h, Daphnia magna); CAS: 2855-13-2: EC50: 23 mg/L (48h, Daphnia magna); CAS: 98-54-4: EC50: 3.4 mg/L (48h, Daphnia magna); CAS: 65-85-0: EC50: 100 mg/L (48h, Daphnia magna, pH: 8.4); Trade Secret: EC50: 0.0207 mg/L (Hyalella azteca, 96h).

Aquatic plant toxicity CAS: 100-51-6: EC50: 770 mg/L (Pseudokirchneriella subcapita, 72h); CAS: 1477-55-0: EC50: 33.3 mg/L (Selenastrum capricornutum, 72h); CAS: 2855-13-2: EC50: > 50 mg/L (Scenedesmus subspicatus, 72h); CAS: 98-54-4: EC50: 22.7 mg/L (Selenastrum capricornutum, 72h); CAS: 65-85-0: Inhibition starts at 1630 mg/L (Scenedesmus, quadricauda, 96h, pH: 7); Trade Secret: EC50: 0.0563 mg/L (Scenedesmus subspicatus).

Persistence and degradability CAS:100-51-6: Readily biodegradable, 92-96% after 14 days.; CAS: 1477-55-0 Not readily biodegradable. 49% after 28 days; CAS: 2855-13-2: Not readily biodegradable (8% after 28 days); CAS: 98-54-4 readily biodegradable; CAS:65-85-0: readily biodegradable (> 90% after 28d); CAS:84852-15-3: readily biodegradable (62% after 28 days).

Bioaccumulative potential CAS: 1477-55-0: Not bioaccumulate (BCF: < 2.7); CAS:98-54-4: BCF: 34-120; CAS:65-85-0: Low potential for bioaccumulation, (log Pow: 1.88); Trade Secret: Highly potential to bioaccumulate. (BCF 740).

Mobility in soil No data available

Other adverse effects Harmful to aquatic life. Very toxic to aquatic life with long lasting effects.

Section 13. Disposal Considerations

Information on safe handling for disposal/methods of disposal/contaminated packaging

Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Section 14. Transport Information

UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations

NAME: Amines liquids, corrosives, N.O.S.; UN NUMBER: UN 2735 ; HAZARD CLASS: 8; PACKING GROUP: III.

UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)

NAME: Amines liquids, corrosives, N.O.S.; UN NUMBER: UN 2735 ; HAZARD CLASS: 8; PACKING GROUP: III; MARINE POLLUTANT: No.

UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)

NAME: Amines liquids, corrosives, N.O.S.; UN NUMBER: UN 2735; HAZARD CLASS: 8; PACKING GROUP: III.

Special precautions (transport/conveyance) Can be shipped as LIMITED QUANTITY according to TDG.

Environmental hazards (IMDG or other) None

Bulk transport (usually more than 450 L in capacity) N/A according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code.

Section 15. Regulatory Information

Safety/health Canadian regulations specifics This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

Environmental Canadian regulations specifics Refer to Section 3 for ingredient(s) of the DSL

Safety/health/environmental outside regulations specifics

United States OSHA information: This product is regulated according to OSHA (29 CFR).

United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.

United States TCSA information: Refer to the ingredients listed in Section 3.

Section 16. Other Information

Date of the latest revision of the safety data sheet February 04, 2018 - version 1

References Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.eurpea.eu

Abbreviations

| | |
|-------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ATE | Acute toxicity estimate |
| CAS | Chemical Abstract Service |
| DSL | Domestic Substance List |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods Code |
| LC | Lethal concentration |
| LD | Lethal Dosage |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program (U.S.A.) |
| OSHA | Occupational Safety and Health Administration (U.S.A.) |
| PEL | Permissible Exposure Limit |



| | |
|-------|--|
| STEL | Short-term Exposure Limit |
| TDG | Transport of dangerous goods in Canada |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| TWA | Time Weighted Average |
| WHMIS | Workplace Hazardous Materials Information System |

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