


SAFETY DATA SHEET

1. Identification

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|---|--|
| Product identifier | C-Coat Part A |
| Other means of identification | Not available. |
| Recommended use | Hardener; Coating |
| Recommended restrictions | None known. |
| Manufacturer/Importer/Supplier/Distributor information | |
| Manufacturer | |
| Company name | Chemical Engineer Canada Corp |
| Address | 3110-580 Seaborne Ave Port Coquitlam BC V38 8G8 Canada |
| Telephone | Not available. |
| E-mail | Not available. |
| Emergency phone number | Not available. |
| Supplier | See above. |

2. Hazard identification

| | | |
|--|--|------------|
| Physical hazards | Not classified. | |
| Health hazards | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2 |
| | Sensitization, skin | Category 1 |
| Environmental hazards | Not classified. | |
| WHMIS 2015 defined hazards | Not classified | |
| Label elements |  | |
| Signal word | Warning | |
| Hazard statement | Causes skin irritation. Causes serious eye irritation. | |
| Precautionary statement | | |
| Prevention | Wash thoroughly after handling. Avoid breathing fume. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. | |
| Response | IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. | |
| Storage | Store away from incompatible materials. | |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. | |
| WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC) | None known | |
| WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC) | None known | |
| Hazard(s) not otherwise classified (HNOC) | None known. | |
| Supplemental information | None. | |

3. Composition/Information on ingredients

Mixture

| Chemical name | Common name and synonyms | CAS number | % |
|--|--------------------------|------------|---------|
| Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane | | 25068-38-6 | 50 - 70 |
| 4,4'-isopropylidenedicyclohexanol, Oligomeric Reaction Products With 1-chloro-2,3-epoxypropane | | 30583-72-3 | 10 - 40 |
| 1,6-bis(2,3-epoxypropoxy)hexane | | 16096-31-4 | 10 - 30 |
| Formaldehyde, polymer with (chloromethyl)oxirane and phenol | | 9003-36-5 | 1 - 10 |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The concentration ranges are provided due to batch-to-batch variability.

4. First-aid measures

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|---|---|
| Inhalation | If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. |
| Skin contact | IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label). |
| Eye contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| Ingestion | Rinse mouth. Do not induce vomiting. |
| Most important symptoms/effects, acute and delayed | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. |
| Indication of immediate medical attention and special treatment needed | Treat patient symptomatically. |
| General information | Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wear rubber gloves and chemical splash goggles. Avoid contact with eyes and skin. Keep out of reach of children. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide. |
| Unsuitable extinguishing media | Not available. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire-fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |
| Hazardous combustion products | May include and are not limited to: Formaldehyde. |

6. Accidental release measures

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Never return spills in original containers for re-use. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Do not discharge into lakes, streams, ponds or public waters. |

7. Handling and storage

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|---|---|
| Precautions for safe handling | Avoid contact with eyes, skin and clothing. Avoid breathing mist or vapor. Wear appropriate personal protective equipment. Provide adequate ventilation. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. |

8. Exposure controls/Personal protection

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|--|--|
| Occupational exposure limits | No exposure limits noted for ingredient(s). |
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Exposure guidelines | See above |
| Appropriate engineering controls | Ensure adequate ventilation. |
| Individual protection measures, such as personal protective equipment | |
| Eye/face protection | Safety glasses or goggles. |
| Skin protection | |
| Hand protection | Rubber gloves. Confirm with a reputable supplier first. |
| Other | As required by employer code. |
| Respiratory protection | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2). |
| Thermal hazards | Not applicable. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product. When using do not eat or drink. |

9. Physical and chemical properties

| | |
|---|-----------------|
| Appearance | Liquid |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Colorless |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Pour point | Not available. |
| Specific gravity | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | Not available. |

| | |
|----------------------------------|----------------|
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |

10. Stability and reactivity

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|---|---|
| Reactivity | May react with incompatible materials. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Chemical stability | Material is stable under normal conditions. |
| Conditions to avoid | Do not mix with other chemicals. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | May include and are not limited to: Formaldehyde. |

11. Toxicological information

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Information on likely routes of exposure

| | |
|---------------------|--|
| Ingestion | May cause stomach distress, nausea or vomiting. |
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | Causes skin irritation. May cause an allergic skin reaction. |
| Eye contact | Causes serious eye irritation. |

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Information on toxicological effects

Acute toxicity

| Components | Species | Test Results |
|---|---------------|--|
| 1,6-bis(2,3-epoxypropoxy)hexane (CAS 16096-31-4) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Not available | |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Rat | 3928 mg/kg, ECHA 3741 mg/kg, ECHA 3526 mg/kg, ECHA 3010 mg/kg, ECHA 2789 mg/kg, ECHA 2189 mg/kg, ECHA 1681 mg/kg, ECHA |
| 4,4'-isopropylidenedicyclohexanol, Oligomeric Reaction Products With 1-chloro-2,3-epoxypropane (CAS 30583-72-3) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rat | > 2000 mg/kg, 24 Hours, ECHA |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Rat | 2000 mg/kg, ECHA |
| Formaldehyde, polymer with (chloromethyl)oxirane and phenol (CAS 9003-36-5) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rat | > 2000 mg/kg, 24 Hours, ECHA > 400 mg/kg, 24 Hours, ECHA |

| Components | Species | Test Results |
|--|--|------------------------------|
| <i>Inhalation</i> | | |
| LC0 | Not available | |
| <i>Oral</i> | | |
| LD50 | Hamster, Chinese | > 10000 mg/kg, ECHA |
| | Mouse | > 10000 mg/kg, ECHA |
| | Rat | > 5000 mg/kg, ECHA |
| | | > 2000 mg/kg, ECHA |
| Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane (CAS 25068-38-6) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Mouse | > 1600 mg/kg, 24 Hours, ECHA |
| | Rabbit | > 3450 mg/kg, 24 Hours, ECHA |
| | | > 2000 mg/kg, 24 Hours, ECHA |
| | | > 20 ml/kg, 24 Hours, ECHA |
| | Rat | > 2000 mg/kg, 24 Hours, ECHA |
| | | > 1600 mg/kg, 24 Hours, ECHA |
| | | > 800 mg/kg, 24 Hours, ECHA |
| <i>Inhalation</i> | | |
| LC50 | Rat | > 791 mg/m3, 4 hours, CCOHS |
| <i>Oral</i> | | |
| LD50 | Mouse | > 800 mg/kg, ECHA |
| | | > 500 mg/kg, ECHA |
| | | 15600 mg/kg, ECHA |
| | Rabbit | 19 mg/kg, ECHA |
| | Rat | > 15000 mg/kg, ECHA |
| | | > 2000 mg/kg, ECHA |
| | | > 1000 mg/kg, ECHA |
| | | > 500 mg/kg, ECHA |
| | | 11400 mg/kg, ECHA |
| | | 19.6 ml/kg, ECHA |
| | | 11.3 ml/kg, ECHA |
| Skin corrosion/irritation | Causes skin irritation. | |
| Exposure minutes | Not available. | |
| Erythema value | Not available. | |
| Oedema value | Not available. | |
| Serious eye damage/eye irritation | Causes serious eye irritation. | |
| Corneal opacity value | Not available. | |
| Iris lesion value | Not available. | |
| Conjunctival reddening value | Not available. | |
| Conjunctival oedema value | Not available. | |
| Recover days | Not available. | |
| Respiratory or skin sensitization | | |
| Respiratory sensitization | Not available. | |
| Skin sensitization | This product is not expected to cause skin sensitization. | |
| Mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. | |
| Carcinogenicity | See below. | |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) | Not listed. | |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. | |

| | |
|---|--------------------------------------|
| Teratogenicity | Not available. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | Not available. |
| Chronic effects | Prolonged inhalation may be harmful. |

12. Ecological information

| | |
|--------------------------------------|---|
| Ecotoxicity | Not available. |
| Persistence and degradability | No data is available on the degradability of this product. |
| Bioaccumulative potential | No data available. |
| Mobility in soil | No data available. |
| Mobility in general | Not available. |
| Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

13. Disposal considerations

| | |
|--|--|
| Disposal instructions | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. Transport information

| | |
|---|--|
| Transport of Dangerous Goods (TDG) Proof of Classification | Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below. |
| U.S. Department of Transportation (DOT) | Not regulated as dangerous goods. |
| Transportation of Dangerous Goods (TDG - Canada) | Not regulated as dangerous goods. |

15. Regulatory information

| | | |
|---|--|--|
| Canadian federal regulations | This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR. | |
| Export Control List (CEPA 1999, Schedule 3) | Not listed. | |
| Greenhouse Gases | Not listed. | |
| Precursor Control Regulations | Not regulated. | |
| WHMIS 2015 Exemptions | Not applicable | |
| US federal regulations | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. | |
| TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) | 1,6-bis(2,3-epoxypropoxy)hexane (CAS 16096-31-4) 1.0 % One-Time Export Notification only. | |
| CERCLA Hazardous Substance List (40 CFR 302.4) | Not listed. | |
| SARA 304 Emergency release notification | Not regulated. | |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) | Not listed. | |
| Superfund Amendments and Reauthorization Act of 1986 (SARA) | | |
| SARA 302 Extremely hazardous substance | No | |

Classified hazard categories

Skin corrosion or irritation
 Serious eye damage or eye irritation
 Respiratory or skin sensitization

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations

See below

US - Texas Effects Screening Levels: Listed substance

1,6-bis(2,3-epoxypropoxy)hexane (CAS 16096-31-4) Listed.
 4,4'-isopropylidenedicyclohexanol, Oligomeric Listed.
 Reaction Products With 1-chloro-2,3-epoxypropane (CAS 30583-72-3)
 Formaldehyde, polymer with (chloromethyl)oxirane and phenol (CAS 9003-36-5) Listed.
 Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane (CAS 25068-38-6) Listed.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Inventory status

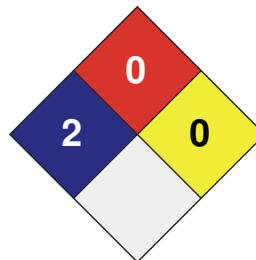
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

| LEGEND | |
|----------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | |
|----------------------------|-----|
| HEALTH | * 2 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | X |

**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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01

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12-January-2021

Further information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Other information

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