

# SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision : 4 September 2023  
Version 2.01

## Section 1. Identification

Product name : ICO Floor Ctng  
Product code : 00462527  
Other means of identification : Not available.  
Product type : Liquid.

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

Product use : Industrial applications, Professional applications, Used by spraying.  
Use of the substance/mixture : Hardener.  
Uses advised against : Not applicable.

Supplier : PPG Architectural Coatings Canada, Inc.  
1550, rue Ampère, bureau 500  
Boucherville (Québec) J4B 7L4  
Canada  
+1 450-655-3121

PPG Industries, Inc.  
One PPG Place  
Pittsburgh, PA 15272

Emergency telephone number : (412) 434-4515 (U.S.)  
(514) 645-1320 (Canada)  
SETIQ Interior de la República: 800-00-214-00 (México)  
SETIQ Ciudad de México: (55) 5559-1588 (México)

Technical Phone Number : 888-977-4762

## Section 2. Hazard identification

Classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN CORROSION - Category 1A  
SERIOUS EYE DAMAGE - Category 1  
SKIN SENSITIZATION - Category 1  
TOXIC TO REPRODUCTION - Category 2  
Health Hazards Not Otherwise Classified - Category 1

### GHS label elements

Hazard pictograms :



## Section 2. Hazard identification

- Signal word** : Danger
- Hazard statements** : Harmful if swallowed or if inhaled.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Suspected of damaging fertility or the unborn child.  
Causes digestive tract burns.
- Precautionary statements**
- Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
- Response** : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
- Storage** : Store locked up.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** : Do not taste or swallow. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Wash thoroughly after handling. Emits toxic fumes when heated.  
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 4% (dermal), 83% (inhalation)

## Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Product name** : ICO Floor Ctng
- Other means of identification** : Not available.

### CAS number/other identifiers

| Ingredient name   | Synonyms  | % (w/w)  | CAS number          |
|---|---|----------|---------------------|
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)- | Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-; Poly[oxy(methyl-1,2-ethanediyl)], alpha-(2-aminomethylethyl)- omega -(2-aminomethylethoxy)-; .alpha.,.omega.-Diaminopolypropylene glycol; Jeffamine 400; Jeffamine D 600; polyoxypropylenediamine; | 30 - 60* | 9046-10-0 (n = 2-6) |

## Section 3. Composition/information on ingredients

|   |  |         |            |
|---|--|---------|------------|
|   | Diaminopolypropylene glycol; Poly(oxy(methyl-1,2-ethanediyl)), alpha-(2-aminomethylethyl)-omega-(2-aminomethylethoxy)-; poly(oxypropylene)diamine; Poly(oxy(methyl-1,2-ethanediyl)), alpha-(2-aminomethylethyl)-omega-(2-aminomethylethoxy)-; JEFFAMINE D-2000   |         |            |
| benzyl alcohol  | Benzenemethanol; alpha-Hydroxytoluene; Phenylcarbinol; Phenylmethanol; E 1519; alpha-hydroxytoluene; Phenylmethyl alcohol; toluenol, alpha-; (hydroxymethyl)benzene; BENZENECARBINOL; alpha-Hydroxytoluene   | 7 - 13* | 100-51-6   |
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | epoxy resin; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane; Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane; Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane; phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane; oxirane, (chloromethyl)-, polymer with 4,4'-(1-methylethylidene)bis[phenol]; Bisphenol A, epichlorhydrin polymer; Epichlorhydrin, bisphenol A resin; poly{(4,4'-propane-2,2-diylidiphenol)-co-[2-(chloromethyl)oxirane]}; BADGE; DGEBA; diglycidyl ether of bisphenol A; bisphenol A diglycidyl ether resin; (bisphenol A)-epichlorhydrin copolymer; poly[4,4'-(1-methylethylidene)bisphenol-co-(chloromethyl)oxirane] | 7 - 13* | 25068-38-6 |
| 4-nonylphenol, branched                                     | Phenol, 4-nonyl-, branched; Branched 4-nonylphenol (mixed isomers); Nonylphenol, 4-branched; N-NONYLPHENOL; Nonylphenol; C9-Branched alkyl phenol; Branched p-nonylphenol; 4-Nonylphenol (branched); Monoalkyl(C3-9)phenol; C9 branched alkyl phenol; Branched 4-nonylphenol   | 7 - 13* | 84852-15-3 |
| 1,3-Cyclohexanedimethanamine                                | 1,3-bis(aminomethyl)cyclohexane; cyclohexane-1,3-diylidimethanamine; Cyclohexane, 1,3-bis(aminomethyl)-; Cyclohexane-1,3-diylbis(methylamine); CYCLOHEXANE, 1,3-BIS(AMINOETHYL)-; Cyclohexane-1,3-diylbis(methylamine); 1-[3-(aminomethyl)cyclohexyl]methanamine   | 7 - 13* | 2579-20-6  |

### Section 3. Composition/information on ingredients

|                             |  |        |                |
|-----------------------------|--|--------|----------------|
| amine blend                 |  | 1 - 5* | Not available. |
| m-phenylenebis(methylamine) | 1,3-Benzenedimethanamine; m-Xylylendiamine; m-Xylene alpha, alpha'-diamine; m-Xylene $\alpha,\alpha'$ -diamine; m-xylene- $\alpha,\alpha'$ -diamine; m-Xylylenediamine; 1,3-bis(Aminomethyl) benzene; MXDA; m-Xylene $\alpha,\alpha'$ -diamine; m-Xylene-a, a'diamine; Dimethylbenzene | 1 - 5* | 1477-55-0      |
| 4-tert-butylphenol          | Phenol, 4-(1,1-dimethylethyl)-; Phenol, p-tert-butyl-; p-tert-Butylphenol; Phenol, p-(tert-butyl)-; 4-(1,1-DIMETHYLETHYL) PHENOL; TERT-BUTYLPHENOL, P-; BUTYLPHEN; BUTYLPHENOL, P-TERT-; P-T-BUTYLPHENOL; para-tert-BUTYLPHENOL; 1-Hydroxy-4-tert-butylbenzene                         | 1 - 5* | 98-54-4        |

\*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

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

### Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. 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.
- 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.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Harmful if inhaled.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

##### Over-exposure signs/symptoms

## Section 4. First-aid measures

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon oxides  
nitrogen oxides  
halogenated compounds
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## Section 5. Fire-fighting measures

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Section 7. Handling and storage

- Special precautions** : Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name   | Exposure limits  |
|---|--|
| <p>Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-benzyl alcohol</p> <p>reaction product: bisphenol-A-(epichlorhydrin); epoxy resin</p> <p>4-nonylphenol, branched</p> <p>1,3-Cyclohexanedimethanamine amine blend</p> <p>m-phenylenebis(methylamine)</p> | <p>None.</p> <p><b>IPEL (-).</b><br/>TWA: 5 ppm<br/>STEL: 10 ppm</p> <p>None.</p> <p>None.</p> <p>None.</p> <p>None.</p> <p><b>CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.</b><br/>C: 0.1 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA British Columbia Provincial (Canada, 6/2022). Absorbed through skin.</b><br/>C: 0.1 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA Ontario Provincial (Canada, 6/2019). Absorbed through skin.</b><br/>Ceiling Limit: 0.1 mg/m<sup>3</sup></p> <p><b>CA Quebec Provincial (Canada, 6/2022). Absorbed through skin.</b><br/>STEV: 0.1 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.</b><br/>CEIL: 0.1 mg/m<sup>3</sup></p> |
| 4-tert-butylphenol  | None.  |

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## Section 8. Exposure controls/personal protection

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Chemical splash goggles and face shield.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Gloves** : nitrile neoprene
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Color** : Amber.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point** : Not available.
- Boiling point** : >37.78°C (>100°F)
- Flash point** : Closed cup: 94°C (201.2°F)
- Auto-ignition temperature** : Not available.



## Section 9. Physical and chemical properties

|   |  |
|---|--|
| <b>Decomposition temperature</b>                    | : Not available.   |
| <b>Flammability</b>                                 | : Not available.   |
| <b>Lower and upper explosive (flammable) limits</b> | : Not available.   |
| <b>Evaporation rate</b>                             | : Not available.   |
| <b>Vapor pressure</b>                               | : Not available.   |
| <b>Vapor density</b>                                | : Not available.   |
| <b>Relative density</b>                             | : 1.03   |
| <b>Density ( lbs / gal )</b>                        | : 8.6  |
| <b>Partition coefficient: n-octanol/water</b>       | : Not applicable.  |
| <b>Viscosity</b>                                    | : Kinematic (40°C (104°F)): >21 mm <sup>2</sup> /s (>21 cSt) |
| <b>Volatility</b>                                   | : 62% (v/v), 53% (w/w)                                       |
| <b>% Solid. (w/w)</b>                               | : 47   |

## Section 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.  |
| <b>Chemical stability</b>                 | : The product is stable.  |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>Conditions to avoid</b>                | : When exposed to high temperatures may produce hazardous decomposition products.<br>Refer to protective measures listed in sections 7 and 8. |
| <b>Incompatible materials</b>             | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.              |
| <b>Hazardous decomposition products</b>   | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds    |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name  | Result                          | Species | Dose                    | Exposure |
|--|---------------------------------|---------|-------------------------|----------|
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-benzyl alcohol<br><br>reaction product: bisphenol-A-(epichlorhydrin); epoxy | LD50 Dermal                     | Rat     | 2980 mg/kg              | -        |
|  | LD50 Oral                       | Rat     | 2885 mg/kg              | -        |
|  | LC50 Inhalation Dusts and mists | Rat     | >4178 mg/m <sup>3</sup> | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | 2000 mg/kg              | -        |
|  | LD50 Oral                       | Rat     | 1.23 g/kg               | -        |
|  | LD50 Dermal                     | Rabbit  | >2 g/kg                 | -        |

**Section 11. Toxicological information**

|                              |                      |                    |             |         |
|------------------------------|----------------------|--------------------|-------------|---------|
| resin                        | LD50 Oral            | Rat                | >2 g/kg     | -       |
| 4-nonylphenol, branched      | LD50 Dermal          | Rabbit             | 2.14 g/kg   | -       |
| 1,3-Cyclohexanedimethanamine | LD50 Oral            | Rat                | 1300 mg/kg  | -       |
|                              | LD50 Dermal          | Rabbit             | 1700 mg/kg  | -       |
| m-phenylenebis (methylamine) | LD50 Oral            | Rat                | 700 mg/kg   | -       |
|                              | LC50 Inhalation Gas. | Rat                | 700 ppm     | 1 hours |
|                              | LD50 Dermal          | Rat - Male, Female | >3100 mg/kg | -       |
| 4-tert-butylphenol           | LD50 Oral            | Rat                | 930 mg/kg   | -       |
|                              | LD50 Dermal          | Rabbit             | 2.29 g/kg   | -       |
|                              | LD50 Oral            | Rat                | 2.95 g/kg   | -       |

**Conclusion/Summary** : There are no data available on the mixture itself.

**Irritation/Corrosion**

| Product/ingredient name                                     | Result                   | Species | Score | Exposure        | Observation |
|---|--------------------------|---------|-------|-----------------|-------------|
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | Eyes - Mild irritant     | Rabbit  | -     | 100 mg          | -           |
|   | Eyes - Moderate irritant | Rabbit  | -     | -               | -           |
|   | Skin - Moderate irritant | Rabbit  | -     | -               | -           |
|   | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 UI | -           |
|   | Skin - Severe irritant   | Rabbit  | -     | 24 hours 2 mg   | -           |
| 4-nonylphenol, branched<br>m-phenylenebis (methylamine)     | Skin - Erythema/Eschar   | Rabbit  | 4     | -               | -           |
|   | Skin - Severe irritant   | Rat     | -     | 4 hours         | 4 hours     |

**Conclusion/Summary**

**Skin** : There are no data available on the mixture itself.

**Eyes** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

**Sensitization**

| Product/ingredient name                                     | Route of exposure | Species | Result      |
|---|-------------------|---------|-------------|
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | skin              | Mouse   | Sensitizing |
| m-phenylenebis (methylamine)                                | skin              | Mouse   | Sensitizing |

**Skin** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

**Mutagenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

**Carcinogenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

**Reproductive toxicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

**Teratogenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

## Section 11. Toxicological information

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Target organs

: Contains material which causes damage to the following organs: blood, liver, heart, brain, skin.  
Contains material which may cause damage to the following organs: kidneys, lungs, the reproductive system, mucous membranes, gastrointestinal tract, upper respiratory tract, central nervous system (CNS), eye, lens or cornea.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Harmful if inhaled.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

## Section 11. Toxicological information

**Conclusion/Summary** : There are no data available on the mixture itself. 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. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

### Short term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

### Long term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

### Potential chronic health effects

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name   | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| ICO Floor Ctng  | 1570.3       | 2574.4         | 25500.0                  | 46.8                       | 2.6                                 |
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-benzyl alcohol | 2885         | 2980           | N/A                      | N/A                        | N/A                                 |
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin                                     | 1230         | 2000           | N/A                      | N/A                        | 1.5                                 |
| 4-nonylphenol, branched   | 2500         | 2500           | N/A                      | N/A                        | N/A                                 |
| 1,3-Cyclohexanedimethanamine  | 1300         | 2140           | N/A                      | N/A                        | N/A                                 |
| amine blend   | 700          | 1700           | N/A                      | N/A                        | N/A                                 |
| m-phenylenebis(methylamine)   | 500          | N/A            | N/A                      | 11                         | N/A                                 |
| 4-tert-butylphenol  | 930          | 2500           | 4500                     | N/A                        | N/A                                 |
|   | 2950         | 2290           | N/A                      | N/A                        | N/A                                 |

## Section 11. Toxicological information

## Section 12. Ecological information

### Toxicity

| Product/ingredient name  | Result   | Species                              | Exposure             |
|--|--|--------------------------------------|----------------------|
| Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-reaction product: bisphenol-A-(epichlorhydrin); epoxy resin<br>4-nonylphenol, branched<br>1,3-Cyclohexanedimethanamine | EC50 15 mg/l                                   | Algae                                | 72 hours             |
|  | Chronic NOEC 0.3 mg/l                          | Daphnia                              | 21 days              |
|  | Acute EC50 0.044 mg/l<br>Acute LC50 0.221 mg/l | Crustaceans - <i>Moina macrocopa</i> | 48 hours             |
|  | LC50 130 mg/l                                  | Fish<br>Fish - <i>golden orfe</i>    | 96 hours<br>96 hours |

### Persistence and degradability

| Product/ingredient name                                     | Test      | Result        | Dose | Inoculum |
|---|-----------|---------------|------|----------|
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | OECD 301F | 5 % - 28 days | -    | -        |

| Product/ingredient name  | Aquatic half-life | Photolysis | Biodegradability       |
|--|-------------------|------------|------------------------|
| Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-benzyl alcohol | -                 | -          | Not readily            |
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin  | -                 | -          | Readily<br>Not readily |

### Bioaccumulative potential

| Product/ingredient name                                     | LogP <sub>ow</sub> | BCF    | Potential |
|---|--------------------|--------|-----------|
| benzyl alcohol  | 0.87               | -      | Low       |
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | 2.64 to 3.78       | 31     | Low       |
| 4-nonylphenol, branched                                     | 5.4                | 251.19 | Low       |
| 1,3-Cyclohexanedimethanamine                                | 0.783              | -      | Low       |
| m-phenylenebis(methylamine)                                 | 0.18               | 2.69   | Low       |
| 4-tert-butylphenol  | 3                  | 67.61  | Low       |

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## Section 14. Transport information

|                             | TDG   | IMDG  | IATA  |
|-----------------------------|---|---|---|
| UN number                   | UN1760  | UN1760  | UN1760  |
| UN proper shipping name     | CORROSIVE LIQUID, N.O.S.<br><br>(Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-, 1,3-Cyclohexanedimethanamine) | CORROSIVE LIQUID, N.O.S.<br><br>(Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-, 1,3-Cyclohexanedimethanamine) | CORROSIVE LIQUID, N.O.S.<br><br>(Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-, 1,3-Cyclohexanedimethanamine) |
| Transport hazard class(es)  | 8   | 8   | 8   |
| Packing group               | II  | II  | II  |
| Environmental hazards       | Yes.  | Yes.  | Yes. The environmentally hazardous substance mark is not required.  |
| Marine pollutant substances | (4-nonylphenol, branched, reaction product: bisphenol-A-(epichlorhydrin); epoxy resin)  | (4-nonylphenol, branched, reaction product: bisphenol-A-(epichlorhydrin); epoxy resin)  | Not applicable.   |

### Additional information

- TDG** : The marine pollutant mark is not required when transported by road or rail.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 14. Transport information

**Transport in bulk according to IMO instruments** : Not applicable.

**Proof of classification statement** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).

## Section 15. Regulatory information

### National Inventory List

**Canada inventory ( DSL )** : All components are listed or exempted.

## Section 16. Other information

### **Hazardous Material Information System (U.S.A.)**

**Health** : 3 \* **Flammability** : 1 **Physical hazards** : 0

( \* ) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### **National Fire Protection Association (U.S.A.)**

**Health** : 3 **Flammability** : 1 **Instability** : 0

**Date of issue/Date of revision** : 4 September 2023

**Organization that prepared the SDS** : EHS

**Key to abbreviations** :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group
- UN = United Nations

✔ Indicates information that has changed from previously issued version.

### Disclaimer

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