

### Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products

Regulations (HPR) WHMIS 2015

Issue date: 03/09/2020 Revision date: 03/09/2020 Version: 1.0

Distributor

importer who operates in the US

Add the name, address and tel. number of the US manufacturer or

#### **SECTION 1: Identification**

#### Identification

Product form : Mixture

: C-Tough (Part B); C-Tough Metal Product name

Product code

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

Use of the substance/mixture : Adhesive for substrates such as metals, glass fiberglass, masonry, wood, stones, ceramics and

#### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Chemical Engineering Canada Corporation 3110-580 Seaborne Ave Port Coquitlam BC, V3B8G8 - Canada T 6044572000

info@ceccorp.ca

#### **Emergency telephone number**

: 6043494141 (9 AM - 5 PM PST) **Emergency number** 

#### **SECTION 2: Hazard identification**

#### Classification of the substance or mixture

#### **GHS** classification

HHNOC 1 Flam. Liq. 4 Acute Tox. 4 (Oral) Skin Corr. 1B Eye Dam. 1 Skin Sens. 1 Repr. 2 STOT RE 2

#### 22 **Label elements**

Signal word (GHS)

#### **GHS** labelling

Hazard pictograms (GHS)



GHS07



: Danger

Causes severe damage to the respiratory tract. Combustible liquid. Harmful if swallowed. Hazard statements (GHS) Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or

repeated exposure.

Precautionary statements (GHS)

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 breathe dust/fume/gas/mist/vapours/spray. Wash hands. forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Immediately call a poison center or doctor. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### Other hazards

No additional information available

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#### 2.4. Unknown acute toxicity

1.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name   | Product identifier    | %      |
|--|-----------------------|--------|
| Cyclohexanamine, 4,4'-methylenebis-                  | (CAS-No.) 1761-71-3   | 1 – 10 |
| Trimethylolpropane polyoxypropylenetriamine          | (CAS-No.) 39423-51-3  | 1 – 10 |
| Formaldehyde, polymer with benzenamine, hydrogenated | (CAS-No.) 135108-88-2 | < 10   |
| Benzyl alcohol                                       | (CAS-No.) 100-51-6    | < 7    |
| Triethylenetetramine                                 | (CAS-No.) 112-24-3    | < 7    |
| Phenol, 4-nonyl-, branched                           | (CAS-No.) 84852-15-3  | < 7    |
| 1-Piperazineethanamine                               | (CAS-No.) 140-31-8    | < 2    |

<sup>\*</sup>The concentrations listed represent actual ranges that result from batch variability.

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing

First-aid measures after eye contact : 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.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Causes burns to the respiratory system. Causes severe damage to the respiratory tract

Symptoms/effects after skin contact : Causes severe skin burns. Symptoms may include redness, pain, blisters. May cause an

allergic skin reaction.

before reuse.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### **SECTION 5: Fire-fighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray or fog. Dry chemical. Carbon dioxide (CO2). Foam. Alcohol resistant foam.

Unsuitable extinguishing media : Do not use water jet.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid. Products of combustion may include, and are not limited to: oxides of carbon.

#### 5.3. Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

No additional information available

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#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment

: Stop leak if safe to do so. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up

: Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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 breathe dust, fume, gas, mist, spray, vapours. Do not swallow. Do not get in eyes, on skin, or on clothing. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Handle and open container with care. Use only outdoors or in a well-ventilated area.

Hygiene measures

: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash hands, forearms and face thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep out of the reach of children. Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep cool.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)

Not applicable

#### Phenol, 4-nonyl-, branched (84852-15-3)

Not applicable

### Benzyl alcohol (100-51-6)

Not applicable

#### Triethylenetetramine (112-24-3)

Not applicable

#### Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)

Not applicable

### Trimethylolpropane polyoxypropylenetriamine (39423-51-3)

Not applicable

#### 1-Piperazineethanamine (140-31-8)

Not applicable

### 8.2. Exposure controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

Hand protection

: Wear suitable gloves resistant to chemical penetration.

Eve protection

: Wear eye/face protection.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: In case of insufficient ventilation, wear suitable respiratory equipment. 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.

Environmental exposure controls

: Avoid release to the environment.

Other information

: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

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: No data available

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear Amber.
Colour : Clear Amber.

Odour : Fish

Odour threshold No data available No data available рΗ Melting point : No data available Freezing point No data available Boiling point : No data available Flash point No data available Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : Combustible liquid. Vapour pressure No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility No data available Partition coefficient n-octanol/water : No data available Auto-ignition temperature No data available : No data available Decomposition temperature

Viscosity, dynamic : 8000 - 12000 cPs @ 25 °C / 77 °F

Explosive limits : No data available
Explosive properties : No data available
Oxidising properties : No data available

#### 9.2. Other information

Viscosity, kinematic

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions. May form flammable/explosive vapour-air mixture.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition.

#### 10.5. Incompatible materials

Strong oxidizers.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. May release flammable gases.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

| ATE CA (oral)                   | 658.356 mg/kg bodyweight   |
|---------------------------------|--|
| Unknown acute toxicity (GHS CA) | 1.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) |

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| Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2) |  |  |
|--|--|--|
| ATE CA (oral)  | 100 mg/kg bodyweight   |  |
| Phenol, 4-nonyl-, branched (84852-15-3)                            |  |  |
| LD50 oral rat  | 1300 mg/kg   |  |
| LD50 dermal rabbit   | 2000 mg/kg   |  |
| Benzyl alcohol (100-51-6)  |  |  |
| LD50 oral rat  | 1230 mg/kg   |  |
| LD50 dermal rabbit   | 2 g/kg   |  |
| LC50 inhalation rat  | 8.8 mg/l/4h  |  |
| ATE CA (Gases)   | 700 ppmv/4h  |  |
| ATE CA (dust,mist)   | 0.5 mg/l/4h  |  |
| Triethylenetetramine (112-24-3)                                    |  |  |
| LD50 oral rat  | 2500 mg/kg   |  |
| LD50 dermal rabbit   | 550 mg/kg  |  |
| Cyclohexanamine, 4,4'-methylenebis- (17                            | 761-71-3)  |  |
| LD50 oral rat  | 625 mg/kg  |  |
| LD50 dermal rabbit   | 2110 mg/kg   |  |
| Trimethylolpropane polyoxypropylenetri                             | amine (39423-51-3)   |  |
| ATE CA (oral)  | 500 mg/kg bodyweight   |  |
| ATE CA (Dermal)  | 1100 mg/kg bodyweight  |  |
| 1-Piperazineethanamine (140-31-8)                                  |  |  |
| LD50 oral rat  | 2140 μl/kg   |  |
| LD50 dermal rabbit   | 880 µl/kg  |  |
| ATE CA (oral)  | 500 mg/kg bodyweight   |  |
| ATE CA (Dermal)  | 880 mg/kg bodyweight   |  |
| Skin corrosion/irritation  | : Causes severe skin burns.  |  |
| Serious eye damage/irritation                                      | : Causes serious eye damage.   |  |
| Respiratory or skin sensitisation                                  | : May cause an allergic skin reaction.   |  |
| Germ cell mutagenicity   | : Not classified.  |  |
| Carcinogenicity  | : Not classified.  |  |
| Reproductive toxicity  | : Suspected of damaging fertility or the unborn child.   |  |
| STOT-single exposure   | : Not classified.  |  |
| STOT-repeated exposure   | : May cause damage to organs through prolonged or repeated exposure.   |  |
| Formaldehyde, polymer with benzenamin                              | ne, hydrogenated (135108-88-2)   |  |
| STOT-repeated exposure   | May cause damage to organs through prolonged or repeated exposure.   |  |
| Cyclohexanamine, 4,4'-methylenebis- (17                            | 761-71-3)  |  |
| STOT-repeated exposure   | May cause damage to organs through prolonged or repeated exposure.   |  |
| Aspiration hazard  | : Not classified.  |  |
| Symptoms/effects after inhalation                                  | : Causes burns to the respiratory system. Causes severe damage to the respiratory tract.   |  |
| Symptoms/effects after skin contact                                | Causes severe skin burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction.   |  |
| Symptoms/effects after eye contact                                 | : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.             |  |
| Symptoms/effects after ingestion                                   | : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. |  |
| Other information  | : Likely routes of exposure: ingestion, inhalation, skin and eye.  |  |
| ECTION 12: Ecological information                                  | n e e e e e e e e e e e e e e e e e e e  |  |

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

| Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2) |   |
|--|---|
| LC50 fish 1  | 63 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static]) |

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| Phenol, 4-nonyl-, branched (84852-15-3) |  |  |
|---|--|--|
| LC50 fish 1                             | 0.135 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])       |  |
| EC50 Daphnia 1                          | 0.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)                             |  |
| LC50 fish 2                             | 0.1351 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])      |  |
| Benzyl alcohol (100-51-6)               |  |  |
| LC50 fish 1                             | 460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])               |  |
| EC50 Daphnia 1                          | 23 mg/l (Exposure time: 48 h - Species: water flea)                                  |  |
| LC50 fish 2                             | 10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                |  |
| Triethylenetetramine (112-24-3)         |  |  |
| LC50 fish 1                             | 570 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])          |  |
| EC50 Daphnia 1                          | 31.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)                             |  |
| LC50 fish 2                             | 495 mg/l (Exposure time: 96 h - Species: Pimephales promelas)                        |  |
| 1-Piperazineethanamine (140-31-8)       |  |  |
| LC50 fish 1                             | 1950 – 2460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |  |
| EC50 Daphnia 1                          | 32 mg/l (Exposure time: 48 h - Species: Daphnia magna)                               |  |
| LC50 fish 2                             | > 1000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])       |  |

#### 12.2. Persistence and degradability

| C-Tough (Part B); C-Tough Metal |                  |
|---------------------------------|------------------|
| Persistence and degradability   | Not established. |

### 12.3. Bioaccumulative potential

| 2.0. Bloaddanialatto potential                  |                               |  |
|---|-------------------------------|--|
| C-Tough (Part B); C-Tough Metal                 |                               |  |
| Bioaccumulative potential                       | Not established.              |  |
| Phenol, 4-nonyl-, branched (84852-15-3)         |                               |  |
| BCF fish 1                                      | 271                           |  |
| Benzyl alcohol (100-51-6)                       |                               |  |
| Partition coefficient n-octanol/water           | 1.1                           |  |
| Triethylenetetramine (112-24-3)                 |                               |  |
| BCF fish 1                                      | (no bioaccumulation expected) |  |
| Partition coefficient n-octanol/water           | -1.4                          |  |
| Cyclohexanamine, 4,4'-methylenebis- (1761-71-3) |                               |  |
| Partition coefficient n-octanol/water           | 2.03                          |  |
| 1-Piperazineethanamine (140-31-8)               |                               |  |
| BCF fish 1                                      | (no bioaccumulation expected) |  |
| Partition coefficient n-octanol/water           | -1.48                         |  |

#### 12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : No other effects known.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapours are flammable.

### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

UN-No.(DOT) : NA1993

Proper Shipping Name (DOT) : Combustible liquid, n.o.s. (Benzyl alcohol)

Class (DOT/TDG) : Combustible liquid

Packing group (DOT) : III

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#### **Transportation of Dangerous Goods (TDG)**

In accordance with TDG

Not Determined

### **SECTION 15: Regulatory information**

#### 15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

**MARNING:** 

This product can expose you to Propylene oxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### **SECTION 16: Other information**

Revision date : 03/09/2020 Other information : None.

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com



SDS HazCom 2012 - WHMIS 2015 (NexReg)

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