# SAFETY DATA SHEET

1. Identification

Product identifier C-Cast Part A

Other means of identification Not available.

Recommended use Hardener; Casting

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Chemical Engineering Canada Corp

Address 3110-580 Seaborne Ave

Port Coquitlam

BC V3B 0M3 Canada Not available

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.

None known

**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)

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

	3. Composition/Information on in	ngredients	
Mixture			
Chemical name	Common name and synonyms	CAS number	%
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxir	Bisphenol A epichlorohydrin resin	25068-38-6	50 - 70
4,4'-isopropylidenedicyclohexal Oligomeric Reaction Products \ 1-chloro-2,3-epoxypropane		30583-72-3	10 - 40
1,6-bis(2,3-epoxypropoxy)hexa	ne 1,6-Hexanediol diglycidyl ether	16096-31-4	10 - 30
Formaldehyde, polymer with (chloromethyl)oxirane and pher	nol	9003-36-5	1 - 10
· ·	y weight unless ingredient is a gas. Gas concen	•	ıme.
Composition comments	The concentration ranges are provided due to	batch-to-batch variability.	
	4. First-aid measures		
Inhalation	If symptoms develop move victim to fresh air.	• •	
Skin contact	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Tak 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 protect themselves. Show this safety data she and chemical splash goggles. Avoid contact we	et to the doctor in attendance	. Wear rubber gloves
	5. Fire-fighting measure	)S	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbo	on dioxide.	
Unsuitable extinguishing media	Not available.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be	e 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 s	o 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: Formaldeh	yde.	
	6. Accidental release meas	sures	
Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leacontainers or spilled material unless wearing a ventilation. Local authorities should be advise personal protection, see section 8 of the SDS.	appropriate protective clothing d if significant spillages canno	j. Ensure adequate
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. into containers. Never return spills in original cremove residual contamination. Following prointo waterways, sewer, basements or confined SDS.	Absorb in vermiculite, dry sa containers for re-use. Clean soluct recovery, flush area with	nd or earth and place urface thoroughly to water. Prevent entry

Do not discharge into lakes, streams, ponds or public waters.

**Environmental precautions** 

7. Handling and storage

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, Store in original tightly closed container.

Store away from incompatible materials (see Section 10 of the SDS). including any incompatibilities

Keep out of reach of children.

8. Exposure controls/Personal protection

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

Ensure adequate ventilation.

controls

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

Liquid **Appearance** Physical state Liquid. **Form** Liquid. Color Colorless Not available. Odor Odor threshold Not available. Not available. Not available. Melting point/freezing point

Initial boiling point and boiling

range

Not available.

Not available. Pour point Specific gravity Not available Partition coefficient Not available.

(n-octanol/water)

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Not available. Flammability limit - lower (%) Not available. Flammability limit - upper (%) Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%)

Vapor pressure Not available. Vapor density Not available. Relative density Not available. Not available. Solubility(ies)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

10. Stability and reactivity

**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

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

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

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Not available

Oral

LD50 Rat 2000 mg/kg, ECHA

Formaldehyde, polymer with (chloromethyl)oxirane and phenol (CAS 9003-36-5)

**Acute** 

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours, ECHA

> 400 mg/kg, 24 Hours, ECHA

**Test Results** Components **Species** Inhalation LC0 Not available Oral > 10000 mg/kg, ECHA LD50 Hamster, Chinese 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 Dermal 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 Inhalation LC50 Rat > 791 mg/m3, 4 hours, CCOHS Oral 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. Not available. Erythema value Not available. Oedema value Causes serious eye irritation. Serious eye damage/eye irritation Not available. Corneal opacity value Not available. Iris lesion value Conjunctival reddening Not available. value Conjunctival oedema value Not available. Not available. Recover days Respiratory or skin sensitization Respiratory sensitization Not available. Skin sensitization This product is not expected to cause skin sensitization. No data available to indicate product or any components present at greater than 0.1% are Mutagenicity mutagenic or genotoxic. See below. Carcinogenicity 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 Mobility in soil

No data available. 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** 

Local disposal regulations

Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable 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

Contaminated packaging

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).

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.

1,6-bis(2,3-epoxypropoxy)hexane (CAS 16096-31-4)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

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

No

hazardous substance

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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 Listed.

and phenol (CAS 9003-36-5)

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with Listed.

(chloromethyl)oxirane (CAS 25068-38-6)

### **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

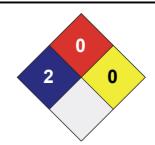
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

### 16. Other information







**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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Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document

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

document.