

MATERIAL SAFETY DATA SHEET

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1. PRODUCT NAME:

**CCS™ Coating, Concentrated
Sulfuric Acid Resistance, Part A**
Chemical Family: Epoxy resin, diluent.

2. HAZARDOUS INGREDIENTS

NAME	CAS No.	TLV	STEL	PEL	CONTENT
Epoxy resin	28064-14-4	none	none	none	75-85%
Epoxy resin	17557-23-2	none	none	none	15-25%

reference section 7, Health Hazard Data for LD (50)

3. PHYSICAL DATA:

Boiling Point:	>250 F	Water/Oil Distribution Coefficient:	N/D
Percent Volatile:	N/D	Solubility in Water:	Nil
Freezing Point	N/D	Specific Gravity:	1.2
Vapor Pressure @ 20C:	N/D	pH:	N/D
Vapor Density	1mm Hg	Evaporation Rate:	N/D
Odor Threshold	N/D	Odor	Mild
Appearance	Beige-grey or brick red liquid		

N/D = Not Determined

4. FIRE AND EXPLOSION HAZARD DATA:

HMIS Flammability Rating:	1 (Slight Hazard)	
Flash Point:	>250F (PMCC)	
Auto Ignition Temperature:	N/D	
Limits of Flammability:	LEL: N/D	UEL: N/D
EXTINGUISHING MEDIA:	CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG	
SPECIAL FIRE & UNUSUAL HAZARDS:	At high temperatures vapors can cause pressure build-up in sealed containers. Use water to cool containers exposed to fire. Self-contained respirator equipment and full protective clothing are required when smoke and fumes are generated. Vapors heavier than air can ignite explosively. Electrical grounding is not recommended.	

5. REACTIVITY DATA:

HMIS Reactivity Rating:	1 - (Slight Hazard)
STABILITY:	This product must be mixed with another component to react. Excessive heat and fume generation can occur if improperly handled. Not sensitive to mechanical impact.
INCOMPATIBILITY:	Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide and dioxide, aldehydes, various hydrocarbons from incomplete combustion.
HAZARDOUS POLYMERIZATION:	May occur is product is not handled per instructions.

6. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS AND LEAKS:	Ventilate area. Wear appropriate protective gear. Contain leak/spill. Salvage. Clean up residue with absorbent material.
WASTE DISPOSAL METHOD:	Handle disposal of waste material in manner which complies with local, state, province, and federal regulations. Landfill if solidified or incinerate at agency approved waste-disposal facility.

7. HEALTH HAZARD DATA:

HMIS Health Rating:	2 - (Moderate Hazard)
Primary Route Of Entry:	Dermal, eyes.
Effects of Overexposure:	
Skin Contact:	Prolonged or repeated exposure may cause skin irritation and redness. Skin sensitization or allergic reaction may occur in some individuals. 28064-14-4 LD(50) 4 g/kg (rat), 17557-23-2 LD(50) 2.15 g/kg (rabbit).
Inhalation:	At room temperature this product is not likely to be an inhalation hazard. At high temperature fumes may cause irritation and sensitization.
Eyes:	Contact can cause moderate irritation, redness tearing and blurred vision.
Ingestion:	Low order of acute oral toxicity. 28064-14-4 LD(50) >5 g/kg (rat); 17557-23-2 LD(50) 8.87 g/kg (rat).
Chronic:	Preexisting skin and eye disorders may be aggravated by this product. Overexposure may cause sensitization or other allergic response. CGE is reported to be mutagenic in vitro

8: FIRST AID:

Inhalation:	Remove victim from exposure. If difficulty with breathing; administer oxygen. If unconscious, utilize artificial respiration. Seek immediate medical assistance.
Eyes:	Flush with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
Skin:	Remove contaminated clothing. Wash with soap and water; get medical attention if irritation persists. Contaminated leather articles cannot be reused.
Ingestion:	Do not induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person.

9. SPECIAL PROTECTION INFORMATION:

HMIS Personal Protection Rating: C (Safety Glasses, Gloves, Apron)	
Ventilation:	Ventilation is recommended.
Personal Protection:	Use chemical goggles. Selection of specific items such as gloves, boots and apron will depend on the operation.

10. ADDITIONAL INFORMATION:

DOT Proper Shipping Name:	Epoxy resin mixture
DOT Hazard Class or Division:	Not regulated
Identification Number:	N/A
Packing Group:	N/A
Labels Required:	N/A
WHMIS Classification:	Class D, Division 2, Sub. B.
WHMIS Labeling:	Stylized T
Storage Conditions:	Keep containers tightly sealed. Store in dry and cool areas.
Shelf life:	Indefinite.
Special Instructions:	Storage recommendations: Store at room temperature. Do not allow to freeze.

The information given herein is given in good faith. No warranty, expressed or implied, is made regarding the accuracy of these data or the results obtained from the use thereof. All materials may present unknown health hazards and must be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Consult ChemCo Systems Inc. for further information.

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