

**MATERIAL SAFETY DATA SHEET**

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Prepared by Dept. of Safety, Phone: 650/261-3790

**24 Hour Emergency Phone: 800.424.9300 (202-483-7616) CHEMTREC****1. PRODUCT NAME:****CCS™ Bonder, Paste, Low Modulus, Part B**

Chemical Family: Polyamines

**2. HAZARDOUS INGREDIENTS**

NAME	CAS No.	TLV	STEL	PEL	CONTENT
Benzene-1,3-dimethanamine	1477-55-0	none	none	0.1	12-17%
Benzyl Alcohol	100-51-6	none	none	none	5-25%
Trimethylhexane diamine	3236-53-1	none	none	none	25-40%
Tris-2,4,6-dimethyl amino methylphenol	90-72-2	none	none	none	10-15%
Para-tert-butylphenol	98-54-4	N/E	N/E	N/E	10-15%

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

**3. PHYSICAL DATA:**

Boiling Point:	N/D	Water/Oil Distribution Coefficient:	N/D
Percent Volatile:	Negligible	Solubility in Water:	slight
Freezing Point	N/D	Specific Gravity:	1.01
Vapor Pressure @ 20C:	N/D	pH:	basic
Vapor Density	Heavier than air	Evaporation Rate:	N/D
Odor Threshold	N/D	Odor	Ammoniacal
Appearance	Opaque amber paste		

N/D = Not Determined

**4. FIRE AND EXPLOSION HAZARD DATA:**

<b>HMS Flammability Rating: 1 - (Slight Hazard)</b>	
Flash Point:	230 F (PMCC)
Auto Ignition Temperature:	N/D
Limits of Flammability:	LEL: N/D UEL: N/D
EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRY CHEMICAL & WATER FOG	
SPECIAL FIRE & UNUSUAL HAZARDS: Self-contained respirator equipment and full protective clothing are required when smoke and fumes are generated. Electrical grounding is not recommended.	

**5. REACTIVITY DATA:**

<b>HMS Reactivity Rating: 0 - (Least Hazard)</b>	
STABILITY:	Stable. This product must be mixed and used in accordance with directions for safety. Not sensitive to mechanical impact.
INCOMPATIBILITY:	Strong oxidizing agents, acids, epoxy resins, isocyanates and organic peroxides may result in violent explosive reactions.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide and dioxide, nitrogen oxides, aldehydes and various hydrocarbons from incomplete combustion.
HAZARDOUS POLYMERIZATION:	Will not occur unless product is mixed with epoxy resins, isocyanates or urethane prepolymers.

**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. Wash down area with water and diluted vinegar.
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:**

<b>HMS Health Rating: 3 - (Serious Hazard)</b>	
Primary Route Of Entry:	Dermal, eyes, ingestion.
<b>Effects of Overexposure:</b>	
Inhalation:	Low degree of volatility. At higher temperatures, it is possible for vapors to be generated. Vapors are very disagreeable. May result in irritation of throat, lungs and an allergic type reaction or sensitization response.
Eyes:	Contact can cause severe burn. At higher temperatures, vapors can cause severe irritation, redness, tearing or blurred vision. Corneal injury is possible.
Skin Contact:	Exposure may cause severe irritation and burn. This material may result in an allergic reaction or sensitization response in some individuals.
Skin Absorption:	May be absorbed through the skin.
Ingestion:	Can result in burns of mouth, esophagus and stomach. LD (50) 1477-55-0 1750 mg/kg (rat) (estimate)
Chronic:	None known.

**8: FIRST AID:**

Eyes:	Flush eyes with water and/or 1% boric acid, lifting upper and lower lids occasionally for 30 minutes. Seek prompt medical attention.
Skin:	Wash with soap and water for at least 15 minutes. Remove contaminated clothing and wash before re-use. Destroy contaminated leather. Seek medical attention if irritation persists.
Ingestion:	Do not induce vomiting. Give large quantities of water or vinegar diluted with 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.
Inhalation:	Remove victim from exposure. If difficulty with breathing; administer oxygen and seek immediate medical assistance.

**9. SPECIAL PROTECTION INFORMATION:**

<b>HMS Personal Protection Rating: C (Safety Glasses, Gloves, Apron)</b>	
Ventilation:	Ventilation at normal room temperature is a means of controlling vapor properly. If material is above 140 F, a positive pressure breathing apparatus is recommended.
Personal Protection:	Use chemical goggles and gloves. Selection of specific items such as gloves, boots and apron will depend on the operation. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for listed hazard. Confined spaces, rooms or tanks are areas where concern for TLV's is especially important. Reference OSHA Regulation CFR 29 1910.134 for recommended respiratory protection.

**10. ADDITIONAL INFORMATION:**

DOT Proper Shipping Name:	Alkylamines, liquid, corrosive, n.o.s. (Benzene-1,3-dimethanamine mixture)
DOT Hazard Class or Division:	8
Identification Number:	UN 2735
Packing group:	II
Labels Required:	CORROSIVE
WHMIS Classification:	Class D, Div. II, Sub. B; Class E.
WHMIS Labeling:	Test tube, hand.
Shelf life:	3 years minimum (see product data sheet)
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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