MATERIAL SAFETY DATA SHEET

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24 Hour Emergency Phone: 800.424.9300 (202-483-7616) CHEMTREC

1. PRODUCT NAME:

CCS[™] Grout Slump Pumping, Part B Chemical Family: Polyamines

2. HAZARDOUS INGREDIENTS

NAME	CAS No.	TLV	STE L	PEL	CONTENT
Amino Ethyl Piperazine (AEP)	140-31-8	none	none	none	50-60%
Mono Nonyl Phenol (MNP)	84852-15-3	none	none	none	20-30%
o-sec. Butylphenol (BP)	89-72-5	5ppm (skin)	none	5ppm (skin)	15-25%

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

3. PHYSICAL DATA:

Boiling Point:	239 C (AEP)	Water/Oil Distribution Coefficient:	N/D
Percent Volatile:	negligible	Solubility in Water:	slight
Freezing Point	N/D	Specific Gravity:	0.95
Vapor Pressure @ 20C:	1mm (DETA)	pH:	basic
Vapor Density	Heavier than air	Evaporation Rate:	N/D
Odor Threshold	N/D	Odor	Ammoniacal
Appearance	Black liquid		
N/D Not Determined			

N/D = Not Determined

4. FIRE AND EXPLOSION HAZARD DATA:

HMIS Flammability Rating:	1 - (Slight Hazard)		
Flash Point:	205 (BP) TCC		
Auto Ignition Temperature:	N/D		
Limits of Flammability:	LEL: 1.0% 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:

HMIS Reactivity Rating:	1 - (Slight Hazard)
STABILITY: Stable. This	product must be mixed with another
component to react. Mix an	d use in accordance with directions for
safety. Not sensitive to mech	nanical impact.
INCOMPATIBILITY: Strong	oxidizing agents, acids, epoxy resins,
isocyanates and organic pe	eroxides 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. Clean up residue with absorbent material. Wash down area with water and diluted acetic acid. 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)
Primar	y Route Of Entry:	Dermal, eyes, ingestion.
	Effects of Ov	verexposure
Inhalation:	possible for vapors to disagreeable. This mat	lity. At higher temperatures it is be generated; the vapors are very erial may result in irritation of throat, e reaction or sensitization in some
Eyes:		vere burns. At higher temperatures vere, irritation, redness, tearing or injury is possible.
Skin Contact:	mild burn. Prolonged	may cause moderate irritation to or repeated exposure may cause a esult in an allergic reaction or in some individuals.
Skin Absorption	(AEP) and (DETA) n moderately toxic amou LD 50 CAS 111-40-0 LD (50) CAS 140-31-8	880 mg/kg (rabbit)
Ingestion:		2140 mg/kg (rat)
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:

HMIS Pers	sonal Protection Rating: C (Safety Glasses, Gloves, Apron)
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. 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 Shippi	ng Name:	N-aminoethylpiperazine mixture
DOT Hazard Class	or Division:	8
Identification Numb	er:	UN 2815
Packing group:		III
Labels Required:		CORROSIVE
WHMIS Classificat	ion:	Class B, Div. 3; Class D, Div, 2, Sub. A & B; Class E.
WHMIS Labeling:		Test tube, hand.
Shelf life:		3 years, minimum.
		ers tightly sealed. Store in dry and cool reezing conditions.

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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