MATERIAL SAFETY DATA SHEET

ChemCo Systems, Inc., 2800 Bay Road, Redwood City, CA 94063 Prepared by Dept. of Safety, Phone: 650/261-3790

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

1. PRODUCT NAME:

CCS™ Grout, Low Exotherm, Part B
Chemical Family: Polyamines

2 HAZARDOUS INGREDIENTS

2. HAZANDOOS INGNEDIENTS					
CAS No.	TLV	STEL	PEL	CONTENT	
68479-98-1	none	none	none	25-30%	
89-72-5	5ppm	none	none	15-25%	
) 100-51-6	none	none	none	15-25%	
69-72-7	none	none	none	2-5%	
	CAS No. 68479-98-1 89-72-5) 100-51-6	CAS No. TLV 68479-98-1 none 89-72-5 5ppm) 100-51-6 none	CAS No. TLV STEL 68479-98-1 none none 89-72-5 5ppm none 100-51-6 none none	CAS No. TLV STEL PEL 68479-98-1 none none none 89-72-5 5ppm none none 100-51-6 none none none	

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

3. PHYSICAL DATA:

Boiling Point:	N/D	Water/Oil Distribution Coefficient:	n N/D
Percent Volatile:	< 1%	Solubility in Water:	partial
Freezing Point	N/D	Specific Gravity:	1.0
Vapor Pressure @ 20C:	< 1mm Hg	pH:	alkaline
Vapor Density	Heavier than air	Evaporation Rate:	N/D
Odor Threshold	N/D	Odor	Ammoniacal
Appearance	Black liquid		

N/D = Not Determined

4. FIRE AND EXPLOSION HAZARD DATA:

HMIS Flammability Rating:	1	- (Slight Hazard)
Flash Point:	210 F (B	A) TCC
Auto Ignition Temperature:	N/D	
Limits of Flammability:	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:

	HMIS Rea	activity Ra	ating:		0	- (L	east Ha	azard)	
	ABILITY: mponent to			•				with	another
	COMPATIB ganic perox								ates and
dio	HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, nitrogen oxides and various hydrocarbons from incomplete combustion.								
HA	ZARDOUS	POLYME	RIZAT	10N: Will	not occ	cur.			

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. Prevent washings from entering waterways.

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, inhalation.
	Effects of Overexposure:
Inhalation:	Due to low vapor pressure of this product, fumes will be minimal below 25 C. At higher temperatures, fumes will be irritating.
Eyes:	Contact can cause severe burns and irreversible damage, irritation, redness, tearing or blurred vision.
Skin	Short single exposure may cause moderate irritation to mild
Contact:	burn. Prolonged or repeated exposure may cause a severe burn. May result in an allergic reaction or sensitization response in some individuals.
Skin	DETDA and OSBP are absorbed through the skin and are
Absorption	considered to be toxic. LD (50) 89-72-5 5.5g/kg (rabbit)
Ingestion:	Intake can cause gastrointestinal irritation, nausea, vomiting, diarrhea, headache and drowsiness. Can result in burns of mouth esophagus and stomach. Moderately toxic.
	LD (50) CAS 68479-98-1 485 mg/kg (rat)
	LD (50) CAS 89-72-5 340 mg/kg (rat)
	LD (50) CAS 100-51-6 890 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 Personal Protection Rating: C (Safety Glasses, Gloves, Apron)					
Ventilation	Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build-up of heavy vapors.				
Personal Protection:	Use eye protection 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 N	lame:	Alkylphenols, liquid, n.o.s. (o-sec Butylphenol mixture)
DOT Hazard Class or D	ivision:	8
Identification Number:		UN3145
Packing group:		III
Labels Required:		CORROSIVE
WHMIS Classification:		Class D, Div. 2, Sub. A&B Class E.
WHMIS Labeling:		Stylized T, Test tube-hand.
Storage Conditions:		ntainers tightly sealed; store in cool area. Avoid freezing conditions.
Shelf life:	······································	18 months.
Special Instructions:		None.

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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