MATERIAL SAFETY DATA SHEET

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

1. PRODUCT NAME:

CCS[™] Grout, Standard- High Ambient Temperature, Part B

Chemical Family: Polyamines, mixture.

2. HAZARDOUS INGREDIENTS

| NAME | CAS No. | TLV | STEL | PEL | CONTENT |
|----------------------------|------------|------|------|------|---------|
| Cycloaliphatic amine | 1761-71-3 | none | none | none | 15-25% |
| Dimethylamino methylphenol | 25338-55-0 | none | none | none | 5-10% |
| Aliphatic diamine | 15520-10-2 | none | none | none | 8-15% |
| Diethylenetriamine (DETA) | 111-40-0 | 1ppm | none | 1ppm | <15% |
| Benzyl alcohol | 100-51-6 | none | none | none | 1-3% |

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

3. PHYSICAL DATA:

| Boiling Point: | 206 C (DETA) | Water/Oil Distributio Coefficient: | n N/D |
|--------------------------|---------------------|---------------------------------------|------------|
| Percent Volatile: | negligible | Solubility in Water: | slight |
| Freezing Point | N/D | Specific Gravity: | 0.97 |
| 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

4. FIRE AND EXPLOSION HAZARD DATA:

| HMIS Flammability Rating: | 1 - (Slig | ht Hazard) |
|----------------------------|-----------------|------------|
| Flash Point: | 102 C (216F) TO | CC |
| 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:

HMIS Reactivity Rating: 1 - (Slight Hazard)

STABILITY: Stable. This product must be mixed with another component to react. 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. 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: | 3 - (Serious Hazard) | |
|---------------------|--|---|--|
| Primar | y Route Of Entry: | Dermal, Inhalation | |
| | Effects of Overexposure: | | |
| Inhalation | Due to low vapor pressure o minimal below 90F. At higher irritating. | | |
| Eyes: | Contact can cause severe tearing or blurred vision. | burns, irritation, redness, | |
| Skin Contact: | Short single exposure may mild burn. Prolonged or repe severe burn. May result i sensitization response in some | ated exposure may cause a n an allergic reaction or | |
| Skin Absorption: | (DETA) may be absorbed the overall toxicity. LD 50 CAS 111-40-0 1080 | | |
| Ingestion: | Intake can cause gastroir vomiting, diarrhea, headache in burns of mouth esophagus a LD 50 CAS 111-40-0 1080 mg | and drowsiness. Can result and stomach. | |
| 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:

| | <u> </u> |
|-------------------------|---|
| HMIS Perso | onal Protection C (Saftey Glasses, Gloves, Apron) |
| Ventilation: | Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid the 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 Name: | Diethylenetriamine mixture | |
|---|---|--|
| DOT Hazard Class or Division: | 8 | |
| Identification Number: | UN 2079 | |
| Packing group: | II | |
| Labels Required: | CORROSIVE | |
| WHMIS Classification: | Class B, Div. 3; Class D, Div, 2, Sub. A & B; Class E. | |
| WHMIS Labeling: | Test tube, hand. | |
| Shelf life: | 3 years, minimum. | |
| Special Storage recommunity Instructions: Do not allow to from the storage recommunity in the storage | Storage recommendations: Store at room temperature. ns: 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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