

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 Slump Pumping, Part A

Chemical Family: Epoxy resin, diluent.

2. HAZARDOUS INGREDIENTS

| NAME | CAS No. | TLV | STEL | PEL | CONTENT |
|-------------------|------------|------|------|------|---------|
| Epoxy resin | 25068-38-6 | none | none | none | 70-80% |
| Epoxy resin (CGE) | 2210-79-9 | none | none | none | 20-30% |

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

3. PHYSICAL DATA:

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|-----------------------|------------------|-------------------------------------|---------|
| Boiling Point: | >390 F | Water/Oil Distribution Coefficient: | N/D |
| Percent Volatile: | Negligible | Solubility in Water: | Minimal |
| Freezing Point | N/D | Specific Gravity: | 1.14 |
| Vapor Pressure @ 20C: | N/D | pH: | N/D |
| Vapor Density | Heavier than air | Evaporation Rate: | N/D |
| Odor Threshold | N/D | Odor | Slight |
| Appearance | Amber liquid | | |

N/D = Not Determined

4. FIRE AND EXPLOSION HAZARD DATA:

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| HMIS Flammability Rating: | 1 - (Slight Hazard) |
| Flash Point: | >220 F (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. Electrical grounding is not recommended. |

5. REACTIVITY DATA:

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| 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:

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| ACTION TO TAKE FOR SPILLS AND LEAKS: | Ventilate area. Eliminate all sources of ignition. 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:

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| HMIS Health Rating: | 2 - (Moderate Hazard) |
| Primary Route Of Entry: | Dermal |
| 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. |
| Skin absorption: | No information known. |
| Eyes: | Contact may cause irritation, redness, tearing and blurred vision. |
| Inhalation: | Vapors may cause severe irritation to nose and mucous membranes. |
| Ingestion: | Intake can cause gastro-intestinal irritation, nausea, vomiting or diarrhea. LD(50) 25068-38-6 11.4 g/kg (rat); LD(50) 2210-79-9 11.4 g/kg (rat). |
| Chronic: | None known. |

8: FIRST AID:

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| HMIS Personal Protection Rating: C (Safety Glasses, Gloves, Apron) | |
| Inhalation: | Remove victim from exposure. If difficulty with breathing; administer oxygen and seek immediate medical assistance. |
| Eyes: | Flush with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention. |
| Skin: | Wash with soap and water; get medical attention if irritation persists. |
| Ingestion: | Do not induce vomiting. Give at least two glasses of water. Get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Do not give anything by mouth to an unconscious person. |

9. SPECIAL PROTECTION INFORMATION:

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| 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 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:

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| 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: | Keep containers tightly sealed. Store in cool and dry area. Avoid freezing 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.

MSDS 115A 04/14