

MATERIAL SAFETY DATA SHEET

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1. PRODUCT NAME:

CCS™ Bonder, Liquid SWL, Part A
Chemical Family: Epoxy resin, filler mixture

2. HAZARDOUS INGREDIENTS

| NAME | CAS No. | TLV | STEL | PEL | CONTENT |
|-------------------|------------|------|------|------|---------|
| Epoxy resin | 25068-38-6 | none | none | none | 75-85% |
| Epoxy resin (CGE) | 2210-79-9 | none | none | none | 15-25% |

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

3. PHYSICAL DATA:

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|-----------------------|------------------|-------------------------------------|---------|
| Boiling Point: | >250 F | Water/Oil Distribution Coefficient: | N/D |
| Percent Volatile: | Negligible | Solubility in Water: | Minimal |
| Freezing Point | N/D | Specific Gravity: | 1.3 |
| Vapor Pressure @ 20C: | N/D | pH: | N/D |
| Vapor Density | Heavier than air | Evaporation Rate: | N/D |
| Odor Threshold | N/D | Odor | Mild |
| Appearance | White liquid | | |

N/D = Not Determined

4. FIRE AND EXPLOSION HAZARD DATA:

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| HMIS Flammability Rating: | 1 - (Slight Hazard) | |
| Flash Point: | >250 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 if product is not handled per instructions. |

6. ENVIRONMENTAL AND DISPOSAL INFORMATION:

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| ACTION TO TAKE FOR SPILLS AND LEAKS: | 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. |
| Inhalation: | No known health information on inhalation of vapors. At higher temperatures fumes may be irritating and cause sensitization. |
| Ingestion: | Low oral toxicity. Epoxy LD(50) 11.4 g/kg (rat); CGE LD(50) 4 g/kg (rat). |
| Chronic: | Prolonged or repeated overexposure may cause sensitization or other allergic reactions. CGE is reported to be mutagenic in vitro. |

8: FIRST AID:

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| 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 give liquid if victim is unconscious or very drowsy. Otherwise, give no more than two glasses of water or milk and induce vomiting by administering 2 tablespoons of ipecac syrup or by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Seek medical attention. |

9. SPECIAL PROTECTION INFORMATION:

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| HMIS Personal Protection Rating: C (Safety Glasses, Gloves, Apron) | |
| Ventilation: | Ventilation is recommended to avoid build-up of heavy vapors. |
| Personal Protection: | Use eye protection. Selection of specific items such as gloves, boots and apron will depend on the operation. |

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: | 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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