

# MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29CFR 1910.1200

Rev. 04/06/09

## COPPER-MATE® SOLDERING FLUX

CANFIELD TECHNOLOGIES, INC.  
1 CROSSMAN ROAD  
SAYREVILLE, NJ 08872

Phone Number 732-316-2100  
Infotrac Emergency 1-800-535-5053

### 1. PRODUCT INGREDIENTS

| <u>Chemical Name</u>   | <u>Cas Number</u> | <u>Weight %</u> | <u>Permissible Air Concen(mg/cu.m)</u> |              | <u>SARA Title III Sect.313 Chem.</u> |
|------------------------|-------------------|-----------------|--|--------------|--------------------------------------|
|                        |                   |                 | <u>OSHA</u>                            | <u>ACGIH</u> |                                      |
| Zinc Chloride          | 7646-85-7         | 40-50%          | 1.0                                    | 1.0          | YES                                  |
| Ammonium Chloride      | 12125-2-9         | 1-10%           | 10                                     | 10           | NO                                   |
| Petrolatum, Tech Grade | 8009-03-08        | 40-50%          | N/A                                    | No Limit     |                                      |

VOC – NONE                      % of Solids – 73%

No other hazardous material is present in concentration greater than 1% (0.1% for carcinogens)

*The ingredients in this product are listed on the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.*

### 2. PHYSICAL DATA

| <u>Material is</u>         | <u>Appearance and Odor</u>   |                         |                      |
|----------------------------|------------------------------|-------------------------|----------------------|
| PASTE                      | YELLOW/ORANGE ODORLESS PASTE |                         |                      |
| <u>Melting Point</u>       | <u>Boiling Point</u>         | <u>Specific Gravity</u> | <u>Vapor Density</u> |
| 145 Deg. F                 | N/A                          | 1.1                     | N/A                  |
| <u>Solubility in Water</u> | <u>Vapor Pressure</u>        | <u>Evaporation Rate</u> | <u>PH</u>            |
| INSOLUBLE                  | N/A                          | N/A                     | N/A                  |

### 3. FIRE AND EXPLOSION DATA

|                    |                         |                            |
|--------------------|-------------------------|----------------------------|
| <u>Flash Point</u> | <u>Flammable Limits</u> | <u>Auto Ignition Temp.</u> |
| 400 Deg. F C.O.C.  | N/A                     | N/A                        |

Unusual fire and explosion hazards  
MAY RELEASE ZINC OXIDE, ZINC CHLORIDE OR AMMOVIA FUMES  
DENSE SMOKE MAY BE GENERATED WHILE BURNING.

Fire extinguishing agents recommended  
USE CO2 OR DRY CHEMICAL ON SURROUNDING FIRE

Fire extinguishing agents to avoid

WATER MAY BE INEFFECTIVE AND MAY CAUSE FOAMING WHEN SPRAYED ON HOT BURNING LIQUID

Special fire fighting precautions

USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS

|             |   |   |   |  |
|-------------|---|---|---|--|
| NFPA RATING | 1 | 0 | 0 | Health 1, Flammability 0,<br>Reactivity 0, Special 0 |
|             |   |   |   |  |

#### **4. HEALTH HAZARD INFORMATION CORROSIVE-EYE AND SKIN HAZARD**

**Primary Routes of Entry**

**INGESTION                    X INHALATION                    ABSORPTION**

**Carcinogenicity**

**THIS PRODUCT HAS NOT BEEN LISTED AS A SUSPECT CARCINOGEN BY NTP, IARC OR OSHA**

**Exposure (symptoms and effects)**

**INHALATION OF FUMES MAY CAUSE IRRITATION OR INJURY TO THE RESPIRATORY TRACT.  
INGESTION MAY CAUSE INJURY TO THE MOUTH AND DIGESTIVE TRACT.  
PROLONGED SKIN CONTACT WILL CAUSE IRRITATION AND INFLAMATION.  
EYE CONTACT MAY RESULT IN DAMAGE TO THE EYE MEMBRANE.**

**First Aid Procedures:**

**INHALATION: MOVE VICTIM TO FRESH AIR. SEEK MEDICAL ASSISTANCE IMMEDIATELY  
SKIN CONTACT: WASH AFFECTED AREAS IMMEDIATELY WITH SOAP AND WATER.  
SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.  
EYE CONTACT: FLUSH EYES WITH WATER FOR 15 MINUTES, CALL A PHYSICIAN.  
INGESTION: INGEST LARGE QUANTITIES OF WATER TO DILUTE, DO NOT INDUCE VOMITING.  
CALL A PHYSICIAN IMMEDIATELY.**

#### **5. PRECAUTIONS/PROCEDURES**

**EMPTY CONTAINERS MAY CONTAIN RESIDUAL PRODUCT. USE PRECAUTION WHEN DISCARDING.**

**Spill or Leak:**

**AN APPROVED CHEMICAL SEWER OR CONTAINERIZE FOR PROPER DISPOSAL.**

**Personal Hygiene:**

**AVOID INHALATION OR INGESTION. PRACTICE GOOD HOUSEKEEPING AND PERSONAL HYGIENE PROCEDURES.**

**Engineering Controls:**

**PROVIDE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MEET OSHA LIMITS. IT IS RECOMMENDED THAT A LOCAL EXHAUST BE USED TO REMOVE ZINC FUMES.**

**Storage:**

**GENERAL STORAGE PROCEDURES ACCEPTABLE.**

**Special Precautions, procedures, label instruction:**

**MATERIAL IS NOT COMPATIBLE WITH STRONG OXIDIZERS.**

#### **6. PERSONAL PROTECTIVE EQUIPMENT**

**Respiratory Protection:**

**IF FUMES EXCEED MINIMUM OSHA LIMITS, AN APPROVED RESPIRATOR IS RECOMMENDED.**

**Eyes and Face:**

**SAFETY GLASSES OR GOGGLES ARE REQUIRED**

**Other Clothing and Equipment:**

**GLOVES AND OTHER PROTECTIVE CLOTHING RECOMMENDED TO PREVENT SKIN CONTACT.**

#### **7. REACTIVITY DATA**

**Stability: STABLE**

**Conditions to Avoid: NOT APPLICABLE**

**Incompatibility: STRONG OXIDIZERS MAY CAUSE VIOLENT REACTION**

**Hazardous Decomposition Products: ZINC CHLORIDE FUME, HYDROGEN CHLORIDE**

## 8. ENVIRONMENTAL

**Waste Disposal Method (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS)**

**IF HAZARDOUS UNDER 40 CFR 261, SUBPARTS B AND C, MATERIAL MUST BE TREATED OR DISPOSED IN A FACILITY MEETING THE REQUIREMENTS OF 40 CFR 254 OR 265. IF NON-HAZARDOUS, MATERIAL SHOULD BE DISPOSED IN A FACILITY MEETING THE REQUIREMENTS OF 40 CFR 257.**

**RCRA Status of Unused Material: IF DISCARDED IN UNALTERED FORM, MATERIAL SHOULD BE TESTED TO DETERMINE IF IT MUST BE CLASSIFIED AS A HAZARDOUS WASTE FOR DISPOSAL PURPOSES. UNDER SPECIFIC CIRCUMSTANCES, APPLICATION CAN BE MADE TO THE EPA ADMINISTRATOR TO HAVE A PARTICULAR WASTE DESIGNATED NON-HAZARDOUS.**

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