

MATERIAL SAFETY DATA SHEET

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SECTION 1

Product Name:

HERCULES Climate Smooth Soldering Paste

DATE PREPARED 02/21/90 DATE ISSUED 10/24/01

ISSUED TO:

REEVES-WIEDEMAN
1053 S E BROADWAY

LEES SUMMIT MO 64081



HERCULES®

**MATERIAL
SAFETY
INFORMATION
SERVICE**
Hercules Chemical Company, Inc.

111 South Street • Passaic, NJ 07055-7398

Information Phone: 800-221-9330

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED (fumes)	%(OPTIONAL)
Zinc Chloride (CAS 7646-85-7)	1.0mg/M3	1.0mg/M3		26%*

*SARA 313 Reportable - Upper Bound Limit Stated

HMIS Hazard Rating: 2 1 1 C

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT N/A	SPECIFIC GRAVITY (H ₂ O = 1) 0.95	VAPOR DENSITY (AIR = 1) N/A
VAPOR PRESSURE (mm Hg.) N/A	MELTING POINT 120-140 Deg F	EVAPORATION RATE (Butyl Acetate = 1) N/A LT1

SOLUBILITY IN WATER Very slightly soluble

APPEARANCE AND COLOR Amber to brown color paste. Odor None.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 580 deg.F (MIN) COC	FLAMMABLE LIMITS N/A	LEL N/A	UEL N/A
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EXTINGUISHING
MEDIA

Dry chemical or Carbon Dioxide or water fog

SPECIAL
FIRE
FIGHTING
PROCEDURES

Do not use a direct stream of water. Product will float & can be reignited on surface of water. Do not enter confined fire space without proper protective equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated above its flash point, this material will release flammable vapors which can burn or be explosive in confined areas. Keep away from extreme heat and open flame.

SECTION 5 - REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
STABLE	Avoid contact with concentrated alkalis.

INCOMPATIBILITY
(MATERIALS TO AVOID)Zinc chloride is incompatible with cyanides (may release toxic HCN gas) and sulfide salts (may release toxic H₂S gas)HAZARDOUS DECOMPOSITION
OR BYPRODUCTS

Will not occur except at high temperatures.

HAZARDOUS
POLYMERIZATION

Will not occur

SECTION 6 - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY	INHALATION?	SKIN?	INGESTION?
	N/A	Yes/primary	Yes/primary

HEALTH HAZARDS (ACUTE AND CHRONIC)

Individuals with pre-existing diseases of lungs may have increased susceptibility to the toxicity of excessive exposures to zinc Chloride.

CARCINOGENICITY:	NTP?	IARC MONOGRAPHS?	OSHA REGULATED?
	NO	NO	NO

SIGNS AND SYMPTOMS OF EXPOSURE

INGESTION: Severe damage to internal organs (Esophagus & Pylorus) will occur if swallowed in large quantities. SKIN CONTACT: Prolonged contact causes burns, skin irritation with discomfort with rash. EYE CONTACT: Will cause eye irritation with discomfort, tearing or blurring of vision.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: Do not induce vomiting. If conscious, dilute by giving large quantities of water or milk. Call a physician immediately. SKIN CONTACT: Wash affected skin area with soapy water. Remove contaminated clothing. If burn (CONTINUED IN SECTION "A" AT BOTTOM OF PAGE)

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Flush with large quantities of water and pick up with absorbing materials

WASTE DISPOSAL METHOD

Landfill, to dispose of large quantities, comply with federal, state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

If handling in large quantities, wear rubber gloves & goggles.

OTHER PRECAUTIONS

None

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE)

In confined spaces or other circumstances where adequate ventilation cannot be assured use NIOSH-approved respirator, positive pressure airline mask, or self-contained breathing apparatus.

VENTILATION	—	LOCAL EXHAUST	N/A	SPECIAL	N/A
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MECHANICAL (GENERAL)	Exhaust fan	OTHER	N/A
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PROTECTIVE GLOVES	Rubber gloves
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EYE PROTECTION	Safety goggles
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OTHER PROTECTIVE CLOTHING OR EQUIPMENT	Gloves while handling
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WORK/HYGIENIC PRACTICES

Wash thoroughly after handling

-- SECTION "A"-- or rash appears, consult a physician. EYE CONTACT: Immediately flush eyes with plenty of water for 15 minutes. Call a physician.

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