

MATERIAL SAFETY DATA SHEETS (MSDS) On-Line OSHA-Required Health And Safety Information!

Section 1

MATERIAL SAFETY DATA SHEET #1

Hercules Swif® Solder 50/50

Date Prepared: 03-Mar-94 Last Reviewed: 03-Mar-94

Meets OSHA 29 CFR 1910.1200

Hercules Chemical Co, Inc.

111 South Street

Passaic, NJ 07055-7398 Tel (800) 221-9330 Fax (800) 333-3456

E-Mail info@herchem.com

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Comman Name(s), CAS Numbers)	OCHLA PEL	A COMPANY		% Upper Bound Limits if SARA
	OSHA PEL	ACGIH TLV	Other Limits	Reportable
Lead (7439-92-1)	0.05 mg/M 3	0.05 mg/M 3	N/A	45
Tin (7440-31-5)	2.0mg/M^3	2.0mg/M^3	N/A	
Zinc Chloride (7646-85-7)	1.0mg/M^3	1.0mg/M^3 (fumes)	N/A	8
Ammonium Chloride (12125-02-9)	N/A	10.0mg/M^3 (fumes)	N/A	

HMIS Hazard Rating: Health: 4 Flammability: 0 Reactivity: 1 Personal Protection: C

Section 3 - Physical/Chemical Characteristics

Boiling Point (°F): Specific Gravity (H²0=1): Vapor Density (Air=1): (mm Hg): 2948 For Solder Powder 4.5 N/A N/A

Melting Point (°F): Evaporation Rate: Solubility in Water:
418 Slightly miscible with water

Appearance And Color: Gray, silvery paste. Odor: None

Section 4 - Fire And Explosion Hazard Data

Flash Point: Flammable Limits: LEL: UEL:

N/A N/A

Extinguishing Media: Carbon dioxide, dry chemical or fog (water).

Special Firefighting Procedures:

None

Unusual Fire And Explosion Hazards:

With excessive heating, material could emit toxic fumes.

Section 5 - Reactivity Data

Stability: Stable Conditions To Avoid: None

Incompatability Zinc chloride is incompatible with cyanides (may release toxic HCN gas) and sulfide salts (may

(Materials To Avoid): relaease toxic H²S gas)

Hazardous
Decomposition:

Will not occur except at high tempertures

Hazardous

Polymerizatrion: Will Not Occur except at high temperatures

Section 6 - Health Hazard Data

Routes of Entry: Inhalation? yes/secondary Skin? yes/primary Ingestion? yes/primary

Health Hazards:

Lead is suspected of causing cancer in the lung & kidney. Acute lead poisoning will result in Gastro Intestinal, Mucous & Renal Tubular degeneration. Chronic lead poisoning will cause Cerebral Edema & degeneration of nerve and muscle cells.

Carcinogenicity: NTP? NO IARC? NO OSHA Regulated? YES

Signs And Symptoms of Exposure:

INGESTION: Severe damage to internal organs (esophagus & pylorus) will occur if swallowed in large quantities. Lead is suspected of causing cancer in the lung & kidney in humans. Prior to cancer, the symptoms of nephritis, neuritis, encephalopathy, anemia, intestinal colic, marked constipation, arteriosclerosis, lead-line of gums can appear as warning of worker exposure. INHALATION: Dust from dried down product can cause injury to respiratory tract. Severe exposure can cause lung damage. 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:

Advanced state of lead poisoning can cause loss of appetite, constipation, nausea, vomiting, jaundice, premature aging, weight loss, lethargy.

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. INHALATION: If excess dust from dried product is inhaled, remove to fresh air; if not breathing, give artificial respiration preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician. SKIN CONTACT: Wash affected skin area with soapy water. Remove contaminated clothing. If burn or rash appears consult a physician. EYE CONTACT: Immediately flush eyes with plenty of water for 15 minutes. Consult a physician.

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 & 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 quantities, rubber gloves and face shield recommended.

Other Precautions:

None

Section 8 - Control Measures:

Respiratory In confined spaces or other circumstances where adequate ventilation cannot be assured use NIOSH-

Protection: approved respirator, positive pressure airline mask, or self contained breathing apparatus.

Ventilation: Local Exhaust? N/A Special? N/A

Mechanical: Exhaust fan Other: N/A

Gloves: Rubber gloves **Eye Protection:** Safety goggles

Other Protective Clothing: Gloves while handling the material.

Work/Hygienic Practices: Wash thoroughly after handling.

Additional Information:

DOT B/L Description: Solder, NOI, o/t with gold, palladium or silver contents.

DOT Hazard Class Information:

NJ Right-To-Know Labeling Information:

Label must state all ingredients in Section 2 plus Trade Secret Registration Numbers (TSR's) 313-48300-

5002P

Home Page

| MSDS | Wholesaler Info | Contractor Info | Homeowner & Industrial Info |

Hercules Chemical Co, Inc.

111 South Street Passaic, NJ 07055-7398 Tel 1-800-221-9330

Fax 1-201-777-4115

E-Mail info@herchem.com

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For more info send <u>E-Mail</u> to info@clmweb.com

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