

OSHA-Required Health And Safety Information!

This Material Safety Data Sheet (MSDS) was requested moments ago from Hercules Automated Fax Information System. Please forward it immediately to the person in charge of MSDS's, or retain it at the machine until claimed.

Section 1

MATERIAL SAFETY DATA SHEET # 80 *Swif® Flow Glo*



MATERIAL SAFETY INFORMATION SERVICE

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 Passaic NJ 07055
 Phone (800) 221-9330
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Date Prepared: 2/28/1992 Last Reviewed: 3/24/1994

Meets OSHA 29 CFR 1910.1200

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s), CAS Numbers)	OSHA PEL	ACGIH TLV	Other Limits	Upper Bound Limit if SARA Reportable
Tin (7440-31-5)	2.0mg/M ³	2.0mg/M ³	N/A	--
Copper (7440-50-8)	0.1mg/M ³	0.2mg/M ³ (fumes)	N/A	.05
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: 2 Flammability: 0 Reactivity: 1 Personal Protection: C

Section 3 - Physical/Chemical Characteristics

Boiling Point (°C): Tin 2260° C/Copper 2595° C	Specific Gravity (H₂O = 1): 4.0	Vapor Density (Air = 1): N/A	Vapor Pressure (mm Hg): N/A
Melting Point (° F) 440-590	Evaporation Rate: (Butyl Acetate = 1) N/A	Solubility in Water: Miscible with water	
Appearance And Color: Gray silvery paste	Odor: None		

Section 4 - Fire And Explosion Hazard Data

Flash Point: N/A	Flammable Limits: N/A	LEL: N/A	UEL: N/A
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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.

Continued on Next Page

Section 5 - Reactivity Data

Stability: Stable **Conditions To Avoid:** 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: Will not occur except at high temperatures.

Hazardous Polymerization: Will Not Occur

Section 6 - Health Hazard Data

Routes of Entry: **Inhalation** YES/Secondary **Skin** YES/Primary **Ingestion** YES/Primary

Health Hazards:

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

Carcinogenicity: **NTP** NO **IARC** NO **OSHA Regulated** 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:

For zinc chloride contact, there are inconclusive or unverified reports of human sensitization.

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 or rash appears, consult a physician. **EYE CONTACT:** Immediately flush eyes with plenty of water for 15 minutes. Consult a physician.

Continued on Next 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 and goggles.

Other Precautions:

None

Section 8 - Control Measures:**Respiratory Protection:**

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
Mechanical N/A

Special N/A

Gloves: Rubber gloves.

Other: N/A

Eye Protection: Safety goggles.

Other Protective Clothing: Gloves while handling the material.

Work/Hygienic Practices Wash thoroughly after handling.



FACTS
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For Hercules Material Safety Data Sheets by fax anytime, day or night, just call 1-800-942-INFO (1-800-942-4636) from any Touch-Tone phone. Have your fax number ready. Checking the product label for the correct MSDS # will save time.