

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 # 2 Swif® 95

Date Prepared: 3/3/1994 Last Reviewed: 1/25/2010

Meets OSHA 29 CFR 1910.1200



**MATERIAL
SAFETY
INFORMATION
SERVICE**

Hercules Chemical Company Inc.
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Phone (800) 221-9330
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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	- -
Zinc Chloride (7646-85-7)	1.0mg/M ³	1.0mg/M ³ (fumes)	N/A	8%
Antimony (7440-36-0)	0.5 mg/M ³	0.5 mg/M ³	N/A	5%
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):

Specific Gravity
(H₂O = 1):

Vapor Density
(Air = 1):

Vapor Pressure
(mm Hg):

Tin 2260° C Antimony 1635° C

4.03

N/A

N/A

Melting Point (° F):

Evaporation Rate:
(Butyl Acetate = 1)

Solubility in Water:

464

Slightly miscible with water

VOC Level (g/l): 0

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.

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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) & sulfide salts (may release toxic H₂S gas).

Hazardous Decomposition: Will not occur except at high temperatures.

Hazardous Polymerization: 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:

Chronic antimony poisoning causes skin pustules, bleeding gums, conjunctivitis, laryngitis, headache, weight loss, and anemia. Acute poisoning can cause nausea, vomiting and severe diarrhea with mucous, and blood, hemorrhagic nephritis & hepatitis may also occur.

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. Antimony is strongly irritating to mucous membranes and to tissue. **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 stages of antimony poisoning may cause fatty degeneration of the liver and other organs. The gastrointestinal tract shows marked congestion and edema.

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.

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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 large quantities, rubber gloves and face shield recommended.

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

Special N/A

Mechanical Exhaust fan

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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AST!

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.