

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 # 14**
Grrip**Date Prepared:** 6/18/1986 **Last Reviewed:** 2/2/2005

Meets OSHA 29 CFR 1910.1200

**MATERIAL
SAFETY
INFORMATION
SERVICE**

Hercules Chemical Company Inc.
111 South Street
Passaic NJ 07055
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 (TWA) | Other Limits | Upper Bound Limit if SARA Reportable |
|---|----------|--------------------|--------------|--|
| Isopropanol (67-63-0) | 400ppm | 200ppm | N/A | - - |

HMIS Hazard Rating: Health: 1 Flammability: 2 Reactivity: 0 Personal Protection: G**Section 3 - Physical/Chemical Characteristics**

| | | | |
|---|--|---|---|
| Boiling Point (°F): 180 (For Isopropanol) | Specific Gravity (H2O = 1): 1.29 | Vapor Density (Air = 1): 2.07 | Vapor Pressur (mm Hg): 33 At 20° C (For Isopropanol) |
| Melting Point (° F) N/A | Evaporation Rate: (Butyl Acetate = 1) 2.88 | Solubility in Water: Insoluble | |
| Appearance And Color: Dark brownish black paste | Odor: Alcohol odor | | |

Section 4 - Fire And Explosion Hazard Data

| | | | |
|---|--------------------------------|-------------------|--------------------|
| Flash Point: (For Isopropanol) 53° F T.C.C. | Flammable Limits n/a | LEL: 2% | UEL: 12% |
|---|--------------------------------|-------------------|--------------------|

Extinguishing Media: Use drv chemical or alcohol tpe foam or water sprav or carbon dioxide.**Special Firefighting Procedures:**

Caution: Combustible mixture. Use self-contained breathing apparatus when handling fires in confined spaces. Use water spray to cool fire exposed surfaces.

Unusual Fire And Explosion Hazards:

Vapors from the product, being heavier than air, may travel to pilot lights and other sources of ignition. Extinguish all such sources of ignition.

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Section 5 - Reactivity Data

Stability: Stable **Conditions To Avoid:** Heat, sparks and open flame
Incompatibility (Materials To Avoid): Avoid concentrated nitric and sulfuric acid, strong oxidizers, aldehydes and halogens.
Hazardous Decomposition: Burning may produce carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur

Section 6 - Health Hazard Data

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

Health Hazards

Ingestion of large quantity may cause drowsiness and loss of consciousness

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

Signs And Symptoms of Exposure:

INGESTION: Slightly toxic. Ingestion of a large quantity may cause drowsiness and loss of consciousness. Stomach cramps, pain, nausea, vomiting and diarrhea may also occur. INHALATION: Concentration may cause mild irritation of eyes, nose and throat. Concentration above the TLV may result in headache and drowsiness. SKIN CONTACT: No evidence of adverse effects from available information on skin absorption, but prolonged contact may cause drying and cracking of skin. EYE CONTACT: May cause slight to moderate irritation with possible corneal injury.

Medical Conditions Generally Aggravated By Exposure:

N/A

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: 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 the affected area with soap & water. Remove contaminated clothing. EYE CONTACT: Immediately flush eyes with plenty of water for 15 minutes. Get medical attention.

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Section 7 - Precautions For Safe Handling And Use:**Steps To Be Taken In Case Material Is Released Or Spilled:**

Use absorbent material to pick up small spills. Large spills: Extinguish any ignition source & pick up with absorbent material.

Waste Disposal Method:

Small spills: Non-hazardous landfill. Large spills: Conform with federal, state and local regulations.

Precautions To Be Taken In Handling And Storing:

Keep away from heat, sparks and flame. Avoid contact with eyes. Keep container closed. Use with adequate ventilation.

Other Precautions:

None

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

None normally required. When handling large quantities use self-contained breathing apparatus if concentration of vapor exceeds 400 ppm.

Ventilation: Local Exhaust N/A

Mechanical Acceptable

Special N/A

Other: N/A

Gloves: Butyl rubber gloves

Eye Protection: Chemical splash goggles.

Other Protective

Clothing: None

Work/Hygienic Practice: Wash thoroughly after handling.



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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.