

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 # 27
Hercules Plastic Seal - Discontinued
Formula

Date Prepared: 4/10/1990 Last Reviewed: 12/26/1996

Meets OSHA 29 CFR 1910.1200



MATERIAL SAFETY INFORMATION SERVICE

Hercules Chemical Company Inc.
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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

This MSDS is for discontinued toluene formula Plastic Seal. For new gun-grade product see MSDS #91.

| Hazardous Components (Specific Chemical Identity; Common Name(s), CAS Numbers) | OSHA PEL | ACGIH TLV | Other Limits | Upper Bound Limit if SARA Reportable |
|--|-----------------------|------------------------------|--------------|--------------------------------------|
| Methyl Ethyl Ketone (78-93-3) | 200 PPM | 200 PPM | N/A | 12% |
| Toluene (108-88-3) | 100 PPM | 100 PPM | N/A | .23 |
| Barium Sulphate (7727-43-7) | 15 mg/M ³ | 10 mg/M ³ (dust) | N/A | 15% |
| Butyl Benzyl Pthalate (85-68-7) | N/A | 5 mg/M ³ | N/A | 4% |
| Crystalline Silica (14808-60-7) | 0.1 mg/M ³ | 0.1 mg/M ³ (dust) | N/A | 40% |

HMIS Hazard Rating: Health: 3 Flammability: 3 Reactivity: 1 Personal Protection: G

Section 3 - Physical/Chemical Characteristics

| Boiling Point (°C): | Specific Gravity (H ₂ O = 1): | Vapor Density (Air = 1): | Vapor Pressure (mm Hg): |
|---------------------|--|--------------------------|-------------------------|
| N/E | 1.67 | <1 | N/E |

| Melting Point (° F) | Evaporation Rate: (Butyl Acetate = 1) | Solubility in Water: |
|---------------------|---------------------------------------|----------------------|
| N/A (paste) | | Very slight |

Appearance And Color: Smooth gray paste Odor: Aromatic odor

Section 4 - Fire And Explosion Hazard Data

| Flash Point: | Flammable Limits: | LEL: | UEL: |
|------------------------------|-------------------|------|------|
| Setaflash (closed cup 39° F) | | 2% | 12% |

Extinguishing Media: Carbon dioxide, dry chemical, foam.

Special Firefighting Procedures:

Handle as flammable liquid, cool fire-exposed containers with water spray. Fire fighters wear self-contained breathing apparatus. Fight like a fuel oil fire.

Unusual Fire And Explosion Hazards:

If fire occurs in close proximity to stored packaged product and closed containers are exposed to high temperatures such as fire conditions there is a possibility of violent rupture.

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Section 5 - Reactivity Data

Stability: Stable **Conditions To Avoid:** Strong oxidizing agents

Incompatibility (Materials To Avoid): Peroxides or strong oxidizing agents, acids, alkalis and amines.

Hazardous Decomposition: Thermal decomposition will yield carbon monoxide, carbon dioxide and acrid fumes.

Hazardous Polymerization: Will Not Occur

Section 6 - Health Hazard Data

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

Health Hazards:

Harmful or fatal if swallowed. Irritant if contact with eyes, open or abraded skin. Severe overexposure can cause headache, dizziness and narcosis.

Carcinogenicity: NTP NO IARC NO OSHA Regulated NO

Signs And Symptoms of Exposure:

INGESTION: Could be harmful or fatal if swallowed. INHALATION: Will cause irritation of mucous membranes, nose, eyes, throat, coughing, difficulty of breathing. Exposure to high vapor concentration may cause headache, dizziness, nausea, narcosis. SKIN CONTACT: Prolonged contact causes common solvent defatting effect. Will cause irritation of open or abraded skin. EYE CONTACT: Vapors slightly uncomfortable, splashes irritating. Will cause painful burning or stinging of eyes and lids, watering of eyes and inflammation of conjunctiva.

Medical Conditions Generally Aggravated By Exposure:

See Exposure

Emergency And First Aid Procedures:

INGESTION: Do not induce vomiting. If conscious, dilute by giving two glasses of water. 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 affected skin area with soapy water. Remove contaminated clothing. 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:**

Eliminate all sources of ignition. Cover the spill with inert absorbents like vermiculite or sand. Gather absorbed mass and dispose of with solid waste according to federal, state and local regulations. Flush the spill area with water, avoiding flushing into confined areas.

Waste Disposal Method:

For large quantities, disposal method should conform with federal, state and local regulations.

Precautions To Be Taken In Handling And Storing:

Keep away from extreme heat, open flame, or other sources of ignition. Do not store above 100° F.

Other Precautions:

Use normal good personal hygiene

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 Preferable Special N/A
Mechanical Mechanical

Gloves: Neoprene or equivalent Other: N/A

Eye Protection: Safety goggles

Other Protective Clothing: If dried material is sanded, or if possibility of dust exists during operation, it is recommended that a NIOSH approved respirator be used. IARC has concluded that there is sufficient evidence for the carcinogenicity of crystalline silica to experimental animals and limited evidence with respect to humans.

Work/Hygienic Practices Wash thoroughly after handling.



FACTS
Faxed
FAST!

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.