



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

Section 1

MATERIAL SAFETY DATA SHEET # 27
Hercules Plastic Seal - Discontinued Formula

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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 Limits if SARA Reportable
<i>This MSDS is for discontinued toluene formula Plastic Seal. For new gun-grade product, see MSDS #91.</i>				
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 (°F):	Specific Gravity (H₂O=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: Setaflash (closed cup 39° F)	Flammable Limits:	LEL: 2%	UEL: 12%
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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.

Section 5 - Reactivity Data

Stability: Stable	Conditions To Avoid: Strong oxidizing agents
Incompatibility (Materials To Avoid):	Peroxides or strong oxidizing agents, acids, alkalies and amines.
Hazardous Decomposition:	Thermal decomposition will yield carbon monoxide, carbon dioxide & acrid fumes.
Hazardous Polymerization:	Will Not Occur

Section 6 - Health Hazard Data

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

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:	Perferable	Special:	N/A
	Mechanical:	Mechanical	Other:	N/A
Gloves:	Neoprene or equivalent			
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.			

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