



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

Section 1

MATERIAL SAFETY DATA SHEET # 66

Hercules Multi-Purpose Cement

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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)

Tetrahydrofuran (109-99-9)

Cyclohexanone (108-94-1)

OSHA PEL

200PPM

25PPM

ACGIH TLV

200PPM

25PPM

Other Limits

N/A

N/A

% Upper Bound
Limits if SARA
Reportable

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HMIS Hazard Rating: Health: 3 Flammability: 4 Reactivity: 1 Personal Protection: G

Section 3 - Physical/Chemical Characteristics

Boiling Point (°F):

151 Based on first boiling
component-THFSpecific Gravity
(H₂O=1):

0.935 ± 0.03

Vapor Density
(Air=1):

2.0 to 2.5

Vapor Pressure
(mm Hg):143 Based on first boiling
component-THF

Melting Point (°F):

N/A

Evaporation
Rate
(Butyl
Acetate=1):

7-11

Solubility in
Water:

60% to 85%

Appearance And Color: White viscous liquid

Odor: Ethereal & Acetone-like

Section 4 - Fire And Explosion Hazard Data

Flash Point:

6.0 °F (T.C.C.) (Based on THF)

Flammable Limits:**LEL:**

2%

UEL:

11.8%

Extinguishing Media: Foam/Dry chemical/Carbon Dioxide**Special Firefighting Procedures:**

Handle as flammable liquid, wear self-contained breathing apparatus and chemical goggles. Water may be ineffective but should be used to keep fire exposed containers cool.

Unusual Fire And Explosion Hazards:

Vapor is heavier than air and travels considerable distance to source of ignition and flashback. On long standing may form peroxides which may cause violent reaction especially upon evaporation to dryness.

Section 5 - Reactivity Data

Stability: Stable	Conditions To Avoid: Keep in closed containers away from sparks and open flame.
Incompatability (Materials To Avoid):	Strong oxidizing materials, Lithium Aluminum Hydride, Sodium Aluminum Hydroxide and Sodium and Potassium Hydroxides.
Hazardous Decomposition:	Carbon dioxide and carbon monoxide are formed. Irritating peroxide fumes formed when heated to decomposition.
Hazardous Polymerization:	Avoid excessive exposure to air and cationic initiators like Lewis Acids.

Section 6 - Health Hazard Data

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

Health Hazards:

Corrosive to eyes and skin irritant. Severe overexposure can cause headache, dizziness and narcosis. May cause dermatosis and dermatitis with prolonged repeated contact.

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

Signs And Symptoms of Exposure:

INGESTION: No effects of exposure expected. INHALATION: Will cause irritation of mucous membranes, nose, eyes, and 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. 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:

No data found.

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 sources of ignition. Absorb with sand or inert absorbing material and dispose of with solid waste according to federal, state and local regulations. Flush spill area with water, avoid flushing into confined areas.

Waste Disposal Method:

Incinerate in accordance with the federal, state and local regulations.

Precautions To Be Taken In Handling And Storing:

Store in cool place, well-ventilated area. Keep away from open flame and sources of ignition.

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	As required	Special: When using cements in an area of
	Exhaust:	All ventilating devices	Other: limited ventilation, use a ventilation
	Mechanical:	must be located so they	device such as a fan or air mover to
		do not provide a source	maintain a safe air concentration.
		of ignition.	N/A
Gloves:	PVA gloves.		
Eye Protection:	Chemical safety goggles		
Other Protective Clothing:	Apron, boots, eye bath, safety shower.		
Work/Hygienic Practices:	Wash thoroughly after handling. Avoid ingestion of the cements. Do not eat or drink when using cements or in the vicinity where such cements are being used.		

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Gloves:	Rubber gloves
Eye Protection:	Goggles
Other Protective Clothing:	None required
Work/Hygienic Practices:	Wash up after handling the material.

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