

**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 # 51**  
**Hercules PVC Below Zero Clear 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)	OSHA PEL	ACGIH TLV	Other Limits	Upper Bound Limit if SARA Reportable
Tetrahydrofuran (109-99-9)	200PPM	200PPM	N/A	--
Methyl Ethyl Ketone (78-93-3)	200PPM	200PPM	N/A	--
Cyclohexanone (108-94-1)	50PPM	20PPM	N/A	--

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

**Section 3 - Physical/Chemical Characteristics**

<b>Boiling Point (°F):</b>	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	<b>Vapor Density (Air = 1):</b>	<b>Vapor Pressure (mm Hg):</b>
151 Based on first boiling component-THF	0.910 ± 0.03	2.0 to 2.5	143 Based on first boiling component-THF
<b>Melting Point (° F):</b>	<b>Evaporation Rate: (Butyl Acetate = 1)</b>	<b>Solubility in Water:</b>	
N/A	7-11	60% to 85%	
<b>Appearance And Color:</b>	Clear Viscous Liquid	<b>Odor:</b>	Ethereal & Acetone-like

**Section 4 - Fire And Explosion Hazard Data**

<b>Flash Point:</b>	<b>Flammable Limits:</b>	<b>LEL:</b>	<b>UEL:</b>
6.0° F (T.C.C.) (Based on THF)		2%	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.

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**Section 5 - Reactivity Data**

**Stability:** Stable                      **Conditions To Avoid:** Keep in closed containers away from sparks & open flame.

**Incompatibility (Materials To Avoid):** Strong oxidizing materials, Lithium Aluminum Hydride, Sodium Aluminum Hydroxide, Sodium & 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, & narcosis. May cause Dermatitis & Dermatitis with prolonged repeated contact.

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

**Signs And Symptoms of Exposure:**

**INGESTION:** No effect of exposure expected. **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. **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.

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**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 federal, state and local regulations

**Precautions To Be Taken In Handling And Storing:**

Store in cool, well-ventilated area. Keep away from open flame and source 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 Exhaust** As required  
**Mechanical** All ventilating devices must be located so they do not provide a source of ignition.

**Special** When using cements in an area of limited ventilation, use a ventilation device such as a fan or air mover to maintain a safe air concentration.

**Gloves:** PVA gloves

**Other:** N/A

**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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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.