

**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 # 117**  
**High Temp Red****MATERIAL SAFETY INFORMATION SERVICE**Hercules Chemical Company Inc.  
111 South Street  
Passaic NJ 07055  
Phone (800) 221-9330  
Fax (800) 333-3456

Date Prepared: 3/22/2006 Last Reviewed: 8/10/2006

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 |
|--|-----------------|-----------------|--------------|--------------------------------------|
| This product consists of a mixture/preparation                                 |                 |                 |              |                                      |
| Ethyltriacetoxysilane (CAS 17689-77-9)   | Not Established | Not Established | N/A          | N/A                                  |
| Methyltriacetoxysilane (CAS 4253-34-3)   | Not Established | Not Established | N/A          | N/A                                  |

HMIS Hazard Rating: 2-1-0-A

**Section 3 - Physical/Chemical Characteristics**

|                       |  |                          |                            |
|-----------------------|--|--------------------------|----------------------------|
| Boiling Point (°F):   | Specific Gravity (H <sub>2</sub> O = 1): | Vapor Density (Air = 1): | Vapor Pressure (mm Hg):    |
| N/A                   | 1.007                                    | Not Determined           | N/A                        |
| Melting Point (° F)   | Evaporation Rate: (Butyl Acetate = 1)    | Solubility in Water:     |                            |
| N/A                   |  | Insoluble                |                            |
| Appearance And Color: | Creamy red paste                         | Odor:                    | Acetic acid (vinegar odor) |

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

|              |                  |      |      |
|--------------|------------------|------|------|
| Flash Point: | Flammable Limits | LEL: | UEL: |
| > 150 Deg F  |                  | N/A  | N/A  |

Extinguishing Media: Dry chemical, foam or water spray

**Special Firefighting Procedures:**

Wear full protective clothing, positive pressure or pressure demand breathing apparatus and protective covering for exposed areas of the head.

**Unusual Fire And Explosion Hazards:**

When heated to temperatures above 150°C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin and digestive system. Safe handling conditions may be maintained by local ventilation.

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**Section 5 - Reactivity Data**

**Stability:** Stable                      **Conditions To Avoid:** Acetic acid formed when exposed to water or humid air. Provide ventilation to control acetic acid exposure - OSHA PEL: TWA 10ppm, ACGSIH TLV 10ppm.

**Incompatibility (Materials To Avoid):** Oxidizing materials.

**Hazardous Decomposition:** Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicone dioxide. Formaldehyde.

**Hazardous Polymerization:** Will Not Occur

**Section 6 - Health Hazard Data**

**Routes of Entry**    Inhalation    Yes                                      Skin    Yes                                      Ingestion    Yes

**Health Hazards**

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

**Signs And Symptoms of Exposure:**

EYE: Moderate irritation with redness and swelling. SKIN: May irritate. Repeated prolonged contact (24 to 48 hours) may irritate moderately. INHALATION: Irritates respiratory passages very slightly. Over exposure may cause drowsiness.INGESTION: May cause vomiting.

**Medical Conditions Generally Aggravated By Exposure:**

None Known

**Emergency And First Aid Procedures:**

INHALATION: Remove person(nel) to fresh air. If ill effects persist get medical attention. SKIN: Remove product from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist. EYE: Immediately flush with water for 15 minutes. Get medical attention. INGESTION: Get medical attention. Do not induce vomiting.

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**Section 7 - Precautions For Safe Handling And Use:**

**Steps To Be Taken In Case Material Is Released Or Spilled:**

Ventilate area. Contain spill. Evacuate unprotected personnel from hazard area. Wipe up or scrape up and contain for salvage or disposal. Cover with absorbent, place in approved drum; Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state, and federal reporting requirements may apply to spills or releases of this material into the environment.

**Waste Disposal Method:**

Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations.

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

Stable. Store at room temperature for best shelf life. Keep away from oxidizing materials, keep container closed and store away from excess moisture/ humidity.

**Other Precautions:**

None

**Section 8 - Control Measures:**

**Respiratory Protection:**

Wear appropriate, properly fitted NIOSH/MSHA approved respirator

**Ventilation:** Local Exhaust: Recommended

**Special:**

Mechanical:

Other: N/A

**Gloves:** Protect hands with impervious rubber gloves

**Eye Protection:** Avoid eye contact. Use proper protection - safety glasses as a minimum.

**Other Protective Clothing:** Use nitrile or butyl rubber glove

**Work/Hygienic Practice:** Wash hands after handling and before eating.



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.