

**MATERIAL SAFETY  
DATA SHEET**

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NAME: METHYLTRIACETOXYSILANE-ETHYLTRIACETOXYSILANE BLEND  
CHEMICAL NAME:  
METHYLTRIACETOXYSILANE-ETHYLTRIACETOXYSILANE MIXTURE  
SYNONYMS: TRIACETOXYMETHYLSILANE-TRIACETOXYETHYLSILANE  
MIXTURE  
CHEMICAL FAMILY: ORGANOSILANE  
FORMULA: C<sub>7</sub>H<sub>12</sub>O<sub>6</sub>Si-C<sub>8</sub>H<sub>14</sub>O<sub>6</sub>Si  
HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
METHYLTRIACETOXYSILANE (OSHA PEL for acetic acid, TWA: 10ppm)	4253-34-3	78-82	not established
ETHYLTRIACETOXYSILANE (OSHA PEL for acetic acid, TWA: 10ppm)	17689-77-9	18-22	not established

**PHYSICAL DATA**

Boiling Point: 87-8°C at 3mm-initial	Melting Point: 18-25°C
Specific Gravity: 1.17	Vapor Pressure at 94°C: 9mm
Vapor Density (air = 1): >1	Solubility in water: reacts
% volatiles: >25%	Evaporation rate: not determined
Molecular Weight: NA	Other: N/A
Appearance & Color: Off-white crystalline solid with acrid odor of acetic acid (vinegar).	

**FIRE & EXPLOSION DATA**

Flash Point, COC : 85°C (185°F) Autoignition Temp.: not determined  
Flammability Limits: not determined  
Extinguishing Media: Alcohol resistant foam, carbon dioxide, dry chemical. Use of high expansion foam (100:1) is recommended to cover flames.  
Special Fire Fighting Procedures: Do not breathe fumes or inhale vapors.  
Unusual Fire and Explosion Hazards: Irritating fumes of acetic acid may develop when material is exposed to water or open flame.

**ENVIRONMENTAL INFORMATION**

Spill response: May be hazardous to aquatic life if released to open waters. Cover spill with absorbent material. Transfer to a suitable container for disposal.  
Recommended Disposal: Incinerate. Alternately, hydrolyze material by mixing with water in a hood. Liquid layer contains acetic acid which should be neutralized.

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Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose, LC: Lethal Concentration; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; HMIS: Hazardous Material information System; CAS No.: Chemical Abstract Service Registration Number  
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Solids may be landfilled. Follow all chemical pollution control regulations.

### **HEALTH HAZARD DATA**

Eye Contact: Will cause immediate or delayed severe chemical burns, including conjunctivitis and corneal damage.

Skin contact: Will produce irritation or contact dermatitis. Can cause severe chemical burns. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors will irritate the respiratory tract. Overexposure may produce severe tissue damage.

Oral Toxicity: not determined

Chronic Toxicity: There are no known chronic effects related to this compound.

NOTE: Material may form a siloxane polymer on the skin, eyes or in the lungs.

Acetic acid is liberated on contact with moisture and living tissue.

### **SUGGESTED FIRST AID**

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Wipe off excess chemical gently and without delay. After the bulk of material is removed by wiping, flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

### **REACTIVITY DATA**

Stability: Stable in sealed containers stored under a dry inert atmosphere.

Conditions to avoid: Avoid contact with heat, sparks or open flame.

Incompatibility (materials to avoid): Reacts with water and moisture in air, liberating acetic acid. Avoid contact with alcohols, alkalis, oxidizers.

Hazardous decomposition products: Organic acid vapors, acetic acid, acetic anhydride.

### **SPECIAL PROTECTION INFORMATION**

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor/acid gas respirator.

Eye and Face Protection: Chemical worker's goggles (Viton recommended). Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

### **OTHER PRECAUTIONS**

For research and industrial use only.

Storage and Handling: Store in sealed containers.

### **TRANSPORTATION**

DOT SHIPPING NAME: CORROSIVE LIQUID, N.O.S.  
(METHYLTRIACETOXYSILANE)

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DOT HAZARD CLASS: 8  
DOT LABEL: Corrosive  
DOT ID No: UN1760 PG: III

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