

GELEST, INC.

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MATERIAL SAFETY DATA SHEET EMERGENCY TELEPHONE CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: TRIMETHYLSILYL CROTONATE - SIT8584.5

CHEMICAL NAME: TRIMETHYLSILYL CROTONATE SYNONYMS: TRIMETHYLSILYL-2-BUTENOIC ACID

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C₇H₁₄O₂Si

HMIS CODES HEALTH: 3 FLAMMABILITY: 3 REACTIVITY: 1

INGREDIENTS

IDENTITY CAS NO. % TLV

TRIMETHYLSILYL CROTONATE 18269-64-2 >95 not established

(ACGIH TLV for the isomer methacrylic acid: TWA 20ppm)

PHYSICAL DATA

Boiling Point: 49-50°C at 10mm Freezing Point: <0°C

Specific Gravity: 0.897 Vapor Pressure, 25°C: <10mm

Vapor Density (air=1): >1 Solubility in water: reacts

% volatiles: 100 Evaporation rate (butyl acetate = 1): <1

Molecular Weight: 158.27 Other: NA

Appearance & Color: Clear to straw liquid with mild odor

FIRE & EXPLOSION DATA

Flash Point, COC: 31°C (88°F) Autoignition Temp.: not determined

Flammability Limits: not determined

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale

vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

-1-(SIT8584.5)

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.: Chemcial Abstract Service Registration Number Gelest. Inc. © 2008



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: May be incinerated. Alternately, absorb onto clay or vermiculite and dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Oral Toxicity: Not determined.

The hydrolysis product, crotonic acid has a reported oral toxicity-rat, LD50: 1000mg/kg Chronic Toxicity: There are no known chronic effects related to this compound.

SUGGESTED FIRST AID

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

SKIN: 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 less than 25°C.

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

Incompatibility (materials to avoid): Reacts with water and moisture in air liberating crotonic acid.

Hazardous decomposition products: Organic acid vapors, crotonic acid.

Non-hazardous polymerization can occur.



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. 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 use only.

Storage and Handling: Store in sealed containers less than 25°C

TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.

(TRIMETHYLSILYL CROTONATE)

DOT HAZARD CLASS: 3

DOT LABEL: FLAMMABLE LIQUID

DOT ID No: 1993 PG: III

Prepared by safety and environmental affairs ISSUE DATE SIT8584.5: 2/4/09 SUPERSEDES: none

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