

**GELEST, INC.**  
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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **2-(TRIMETHYLSILOXY)-1,3-BUTADIENE - SIT8571.2**

CHEMICAL NAME: 2-(TRIMETHYLSILOXY)-1,3-BUTADIENE

SYNONYMS: 3-BUTEN-2-ONE, TRIMETHYLSILYL ETHER

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C<sub>7</sub>H<sub>14</sub>OSi

HMIS CODES    HEALTH: 3    FLAMMABILITY: 4    REACTIVITY: 1

**INGREDIENTS**

IDENTITY

2-(TRIMETHYLSILOXY)-1,3-BUTADIENE

CAS NO.

38053-91-7

%

>95

TLV

not established

**PHYSICAL DATA**

Boiling Point: 50-5°C at 50mm

Freezing Point: <0°C

Specific Gravity: 0.807

Vapor Pressure, 25°: <25mm

Vapor Density (air=1): >1

Solubility in water: insoluble, reacts slowly

% volatiles: 100

Evaporation rate: not determined

Molecular Weight: 142.27

Other: NA

Appearance & Color: Clear to straw liquid with mild odor.

**FIRE & EXPLOSION DATA**

Flash Point, COC: 12°C (54°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-(SIT8571.2)

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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## 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, absorb onto clay or vermiculite and dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

**Eye Contact:** Vapors may cause immediate or delayed severe eye irritation. Liquid can cause severe conjunctivitis and corneal damage

**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.

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

Material hydrolyzes on contact with moisture to form methylvinylketone, a toxic compound. (TOXICITY-oral rat, LD50: 31mg/kg)

## 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 at less than 5°. Degrades slowly at room temperature.

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

**Incompatibility (materials to avoid):** Reacts with water and moisture in air liberating methylvinylketone. Avoid contact with peroxides, oxidizing agents, acids.

**Hazardous decomposition products:** Organic acid vapors, methylvinylketone.

-2-(SIT8571.2)

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or organic vapor 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.

Ground all containers during material transfer.

Storage and Handling: Store in sealed containers at less than 5°C.

## TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE LIQUID, TOXIC N.O.S.  
(2-(TRIMETHYLSILOXY)-1,3-BUTADIENE )

DOT HAZARD CLASS: 3 SUB: 6.1

DOT LABELS: FLAMMABLE LIQUID & TOXIC

DOT ID No:UN 1992 PG: III

Prepared by safety and environmental affairs

ISSUE DATE SIT8571.2: 12/29/05

SUPERSEDES: 2/27/04

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-3-(SIT8571.2)

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