

GELEST, INC.
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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **ISOBUTYLTRICHLOROSILANE - SII6453.0**

CHEMICAL NAME: ISOBUTYLTRICHLOROSILANE

SYNONYMS: 1-TRICHLOROSILYL--2-METHYLPROPANE

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C4H9Cl3Si

HMIS CODES HEALTH: 3 FLAMMABILITY: 3 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
ISOBUTYLTRICHLOROSILANE	18169-57-8	>97	not established (OSHA PEL for hydrogen chloride, TWA: 5ppm)	

PHYSICAL DATA

Boiling Point: 140°C Freezing Point: <0°C

Specific Gravity: 1.15

Vapor Pressure, 25°C: <10mm

Vapor Density (air = 1): >1

Solubility in water: reacts

% volatiles: >25%

Evaporation rate: not determined

Molecular Weight: 191.56

Other: NA

Appearance & Color: Clear to straw liquid with acrid odor of hydrogen chloride

FIRE & EXPLOSION DATA

Flash Point, COC : 37°C (100°F) Autoignition Temp.: not determined

Flammability Limits: not established

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: Use only dry media to extinguish flames. Water spray or fog should only be used to knock down hydrogen chloride vapors in areas downwind from the fire.

Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

Unusual Fire and Explosion Hazards: Irritating fumes of hydrogen chloride and organic acid vapors may develop when material is exposed to water or open flame.

-1-(SII6453.0)

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: Hydrolyze material by mixing with water in a hood. Liquid layer contains hydrochloric acid which should be neutralized. Solids may be landfilled. 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 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.

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.

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

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 hydrogen chloride. Avoid contact with alcohols, acids, oxidizers.

Hazardous decomposition products: Organic acid vapors, hydrogen chloride.

-2-(SII6453.0)

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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.

Containers required grounding during use.

TRANSPORTATION

DOT SHIPPING NAME: CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.
(ISOBUTYLTRICHLOROSILANE)

DOT HAZARD CLASS: 8

DOT LABEL: Corrosive and Flammable Liquid

DOT ID No: UN2986

PG: II

Prepared by safety and environmental affairs

ISSUE DATE SII6453.0: 6/2/04

SUPERSEDES: 7/23/03

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