

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME: **N-(TRIMETHOXYSILYLPROPYL)ISOTHIOURONIUM CHLORIDE, 50% - SIT8405.0**
CHEMICAL NAME: N-(TRIMETHOXYSILYLPROPYL)ISOTHIOURONIUM CHLORIDE, 50%
in water

SYNONYMS: TRIHYDROXYPROPYLCARBAMIDOTHIOIC ACID, HYDROCHLORIDE
CHEMICAL FAMILY: SILICATE SOLUTION
FORMULA: C₇H₁₉ClN₂O₃SSi

HMIS CODES HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
N-(TRIMETHOXYSILYLPROPYL)ISOTHIOURONIUM CHLORIDE	84682-36-0	>50		not established
WATER	7732-18-5	<50		

PHYSICAL DATA

Boiling Point: 100° - initial (water)
Specific Gravity: 1.19
Vapor Density (air = 1): NA
% volatiles: N/A
Molecular Weight: 274.84
Appearance & Color: Clear solution

Melting Point: <0°C
Vapor Pressure, 20°: <1
Solubility in water: soluble
Evaporation rate: NA
Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: none Autoignition Temp.: not determined
Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Not combustible.
Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe vapors.
Unusual Fire and Explosion Hazards: None

-1-(SIT8405.0)

ENVIRONMENTAL INFORMATION

Spill response: Absorb onto clay or vermiculite, sweep material, avoiding inhalation of vapors.

Recommended Disposal: Landfill. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed eye irritation.

Skin contact: May produce irritation. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors or particulates 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.

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.

Conditions to avoid: None determined

Incompatibility (materials to avoid): None determined

Hazardous decomposition products: Carbon dioxide, sulfur dioxide, hydrogen chloride, silicon dioxide.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV for particulates, a dust mask is required.

Eye and Face Protection: Safety glasses.

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

-2-(SIT8405.0)

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV for particulates, a dust mask is required.

Eye and Face Protection: Safety glasses.

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: NOT REGULATED

DOT HAZARD CLASS: NOT REGULATED

DOT LABELS: NOT REQUIRED

DOT ID No: NOT REQUIRED

Prepared by safety and environmental affairs

ISSUE DATE SIT8405.0: 5/11/09

SUPERSEDES: 9/2/03

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