

**MATERIAL SAFETY
DATA SHEET**

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NAME: METHYLTRIS(METHYLETHYLKETOXIME)SILANE
CHEMICAL NAME: METHYLTRIS(METHYLETHYLKETOXIME)SILANE
SYNONYMS: METHYLTRIS(BUTANONEOXIME)SILANE
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: C₁₃H₂₇N₃O₃Si
HMIS CODES HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY

METHYLTRIS(METHYLETHYLKETOXIME)SILANE
CAS NO. % TLV OSHA PEL
22984-54-9 >90 not established
METHYLETHYLKETOXIME 96-29-7 < <5 10ppm not established

PHYSICAL DATA

Boiling Point: 110-1°C at 2mm Freezing Point: -22°C
Specific Gravity: 0.982 Vapor Pressure, 150°C: 4.0mm
Vapor Density (air=1): >1 Solubility in water: reacts
% volatiles: <5 Evaporation rate: NA
Molecular Weight: 308.17 Other: N/A
Appearance & Color: Clear to straw liquid with mild odor

FIRE & EXPLOSION DATA

Flash Point, COC: 90°C (194°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.

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

- 1-

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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Eye Contact: Will cause immediate or delayed severe eye irritation. Burns will develop unless treated.

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

Inhalation: Inhalation of vapors or particulates of may irritate the respiratory tract. Vapors from decomposition or exposure to atmospheric moisture may cause a reversible narcotic effect. Overexposure may cause coma and respiratory failure. Oral Toxicity - rat, LD50: 2000-3000mg/kg. Subchronic oral toxicity studies with the hydrolysis product, methylethylketoxime, indicate that ingestion may produce blood effects, reducing the blood's ability to transport oxygen (methemoglobinemia and anemia.)

Chronic Toxicity: There are no known chronic effects related to this compound. The hydrolysis product, methylethylketoxime, in lifetime inhalation studies in which mice and rats were exposed 6hrs/day, 5days/week for 18 and 24 months, respectively, showed a statistical increase in liver carcinomas at exposure levels of 375ppm. In vivo and in vitro studies did not indicate mutagenicity or genotoxicity.

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. Do not expose to moisture acid, oxidizers and metals such as iron.

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

Incompatibility (materials to avoid): Reacts with water and moisture in air and acids liberating methylethylketoxime (MEKO). Contact with iron should be avoided. Contact with electrophiles such as ferric chloride can lead to a violent reaction.

Hazardous decomposition products: Organic vapors including methylethylketoxime, methylethylketone, silicon dioxide, CO, CO₂ and NO_x.

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.

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OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers without contacting iron or steel.

TRANSPORTATION

DOT SHIPPING NAME: COMBUSTIBLE LIQUID, NOS

DOT HAZARD CLASS: NOT REGULATED

DOT LABEL: NOT REGULATED

DOT ID No: NOT REGULATED

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