

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME: **DIETHYL(TRIMETHYLSILOXYCARBONYLMETHYL)PHOSPHONATE 95% - SID3420.0**
CHEMICAL NAME: DIETHYL(TRIMETHYLSILOXYCARBONYLMETHYL)PHOSPHONATE
SYNONYMS:
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: C₉H₂₁O₅PSi

HMIS CODES HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 1

INGREDIENTS

| IDENTITY | CAS NO. | % | TLV |
|---|------------|-----|-----------------|
| DIETHYL(TRIMETHYLSILOXYCARBONYLMETHYL)PHOSPHONATE | 66130-90-3 | >95 | not established |

PHYSICAL DATA

Boiling Point: 93°C at 0.0005mm
Specific Gravity: 1.06
Vapor Density: (air=1): >1
% volatiles: NA
Molecular Weight: 268.33
Appearance & Color: Clear to straw liquid with mild odor

Freezing Point: <0°C
Vapor Pressure, 25°: <0.0001mm
Solubility in water: soluble, reacts
Evaporation rate: NA
Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: 44°C (112°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-(SID3420.0)

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 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, preferably from an ophthalmologist.

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.

This compound liberates ethanol on contact with moisture.

REACTIVITY DATA

Stability: Stable in sealed containers.

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

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

Hazardous decomposition products: Organic Acid Vapors.

-2-(SID3420.0)

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 I use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

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

DOT HAZARD CLASS: Not Regulated

DOT LABEL: Not Required

DOT ID No: Not Required

Prepared by safety and environmental affairs ISSUE DATE SID3420.0: 2/14/04
SUPERSEDES: none

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