

GELEST, INC.
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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: POLY(DIMETHYLSILANE) - PSS-1M01
CHEMICAL NAME: POLY(DIMETHYLSILANE)
SYNONYMS: POLYDIMETHYLSILENE
CHEMICAL FAMILY: SILICONE RESIN
FORMULA: $(CH_3)_2Si)_n$

HMIS CODES HEALTH: 0 FLAMMABILITY: 3 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	% TLV	OSHA PEL
POLY(DIMETHYLSILANE)	28883-63-8/30107-43-8	>95	not established

PHYSICAL DATA

Boiling Point: NA
Specific Gravity: not determined
Vapor Density: NA
% volatiles: <1
Molecular Weight: 1500-4000
Appearance & Color: Off-white powder

Softening Point: >340°C - decomposes
Vapor Pressure not determined
Solubility in water: insoluble
Evaporation rate: NA
Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: 103°C (217°F) Autoignition Temp.: 179-198°C
Dust Explosion Limits- LEL: 55mg/L UEL: NA

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.

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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: Dispose 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 of may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Oral Toxicity - rat, LD50: >5000mg/kg.

Chronic Toxicity: There are no known chronic effects related to this compound. Ames test for mutagenicity were negative.

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 in the dark at temperatures below 30°C.

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

Incompatibility (materials to avoid): Avoid strong oxidizers.

Hazardous decomposition products: Organic acid vapors.

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SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or dust mask protection.

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 and industrial use only.

Storage and Handling: Store in sealed containers.

Ground containers when handling powder.

TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE SOLID, ORGANIC, N.O.S. (POLY(DIMETHYLSILANE))

DOT HAZARD CLASS: 4.1

DOT LABEL: FLAMMABLE SOLID

DOT ID No: 1325

PG: II

ERG: 133

This product is subject to US Export Control regulations.

Prepared by safety and environmental affairs MSDS ISSUE DATE PSS-1M01: 6/5/13

SUPERSEDES: 9/2/09

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