GELEST, INC. 11 East Steel Rd. Morrisville, PA 19067 Phone: (215) 547-1015

MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: DIMETHYLSILA-17-CROWN-6 - SID4220.6 CHEMICAL NAME: DIMETHYLSILA-17-CROWN-6, 90% SYNONYMS: 1,1-DIMETHYL-1-SILA-2,5,8,11,14,17-HEXAOXACYCLOHEPTADECANE CHEMICAL FAMILY: ORGANOSILANE ESTER FORMULA: C10H22O5Si

HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

CAS NO. **IDENTITY** DIMETHYLSILA-17-CROWN-6 83890-22-6 >90 DIMETHYLSILA-14-CROWN-5 70851-49-9

% TLV not established

OSHA PEL

not established

PHYSICAL DATA

>5

Boiling Point: 168-170°C at 0.3mm Melting Point: <0°C Specific Gravity: 1.09 Vapor Pressure @25°C: <0.1mm Vapor Density (air = 1): ~ 7.5 Solubility in water: soluble, reacts slowly Evaporation rate (Butyl Acetate = 1): <1 % volatiles: 100 Molecular Weight: 294.92 Other: N/A Appearance & Color: Clear liquid, characteristic odor

FIRE & EXPLOSION DATA

Flash Point, TCC: >110°C (>230°F) Flammability Limits: not determined

Autoignition Temp.: not determined

Extinguishing Media: Water spray or fog, 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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Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose, LC: Lethal Concentration; H: hour; °: °C unless

ENVIRONMENTAL INFORMATION

Spill response: Sweep material and transfer to a suitable container for disposal.

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

HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis. Material generates ethanol on contact with water or moisture in skin, eyes and mucous membranes and has an irritating, dehydrating effect on overexposed tissue. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation may irritate the respiratory tract. Overexposure can cause lung damage - pulmonary toxin.

Note: The hydrolysis product of dimethylsila-14-crown-5 is tetraethyleneglycol. Tetraethylenegylcol has been reported to have teratogenic effects in laboratory tests.

Oral Toxicity:not determined Inhalation Toxicity: not determined

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. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. To conscious individual give one full cup of water to dilute ingested material. Get medical attention.

REACTIVITY DATA

Stability: Stable

Conditions to avoid: Material decomposes slowly in contact with moist air or with water liberating tetraethylenegycol. Avoid contact with oxidizing agents..

Hazardous decomposition products: Pentaethyleneglycol, organic acid vapors and silicon dioxide.

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SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended. Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor 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 and industrial use only.

Storage and Handling: Store in sealed containers.

Containers require grounding during use.

TRANSPORTATION

DOT SHIPPING NAME:CHEMICALS, NOI DOT HAZARD CLASS: Not Regulated DOT LABEL: Not Required DOT ID No: Not Required

Prepared by safety and environmental affairs

ISSUE DATE SID4220.6: 6/23/03 SUPERSEDES: 6/11/98

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