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

IDENTITY    CAS NO.    % TLV    OSHA PEL
DIMETHYLSILA-17-CROWN-6  83890-22-6  >90 not established
DIMETHYLSILA-14-CROWN-5  70851-49-9  >5 not established

PHYSICAL DATA

Boiling Point: 168-170°C at 0.3mm
Specific Gravity: 1.09
Vapor Density (air = 1): ~7.5
% volatiles: 100
Molecular Weight: 294.92
Appearance & Color: Clear liquid, characteristic odor

FIRE & EXPLOSION DATA

Flash Point, TCC: >110°C (>230°F)
Autoignition Temp.: not determined
Flammability Limits: 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 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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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. Tetraethyleneglycol 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 tetraethyleneglycol. 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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