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**MATERIAL SAFETY
DATA SHEET**

**EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300**

NAME USED ON LABEL: **CYCLO-2245 (D5)**
CHEMICAL NAME: DECAMETHYLCYCLOPENTASILOXANE
SYNONYMS: CYCLIC PENTAMER, D5
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: C₁₀H₃₀O₅Si₅
HMIS CODES HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0

INGREDIENTS

| IDENTITY | CAS NO. | %. |
|------------------------------|----------|-----|
| DECAMETHYLCYCLOPENTASILOXANE | 541-02-6 | >90 |

PHYSICAL DATA

Boiling Point: 101°C at 20mm
Specific Gravity: 0.959
Vapor Density (air=1): >1
% volatiles: 100
Molecular Weight: 370.77 Viscosity: 3.9cSt
Appearance & Color: Clear, nearly odorless liquid

Freezing Point: (-44°C)
Vapor Pressure, 50°: 2mm
Solubility in water: insoluble
Evaporation rate: N/A

FIRE & EXPLOSION DATA

Flash Point, PMCC: 76°C (170°F)
Flammability Limits: not determined

Autoignition Temp: 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. Liquid generates strong static charge when poured.

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: Vapors may cause immediate or delayed severe eye irritation. Liquid will cause severe conjunctivitis and corneal damage

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 will 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.

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 in a cool place.

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

Incompatibility (materials to avoid): Bases can cause non-hazardous polymerization. Avoid contact with peroxides, oxidizing agents.

Hazardous decomposition products: Organic Acid Vapors.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor amine 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 and industrial use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

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

DOT HAZARD CLASS: Not Regulated

DOT LABELS: Not Required

DOT ID No: Not Required

Prepared by safety and environmental affairs ISSUE DATE SID2650.0: 6/16/03

SUPERSEDES: 12/7/95

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