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**MATERIAL SAFETY DATA SHEET**

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**Date Prepared 03/01/2011**

NAME USED ON LABEL: **CYCLO-2345 (D5/D6) Cyclomethicone**  
CHEMICAL NAME: DECAMETHYLCYCLOPENTASILOXANE / Dodecamethylcyclohexasiloxane  
SYNONYMS: CYCLIC PENTAMER, D5 / D6

NFPA HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS NO.	%.
Decamethylcyclopentasiloxane	541-02-6	60 to 80
Dodecamethylcyclohexasiloxane	540-97-6	20 to 40

**PHYSICAL DATA**

Boiling Point: 216°C /  
Specific Gravity: 0.96  
Vapor Density (air=1): unknown  
% Volatiles: unknown  
Appearance & Color: Clear, nearly odorless liquid

Freezing Point: (-40°C)  
Vapor Pressure, 50°: 2mm  
Solubility in water: insoluble  
Evaporation rate: N/A  
Density (kg/m3): 960

**FIRE & EXPLOSION DATA**

Flash Point, PMCC: 82°C (179°F)  
Flammability Limits: not determined

Autoignition Temp: 380°C

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.

Hazard Technical Name: Cyclosiloxane

HAZARD CLASS: Combustible liquid

DOT LABELS: Not Required

DOT ID No: NA 1221

UN/NA #: NA 1993 in Bulk

Not regulated by IATA

Prepared by safety and environmental affairs

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