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MATERIAL SAFETY DATA SHEET

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Date Prepared 03/01/2011

NAME USED ON LABEL: **Cyclo-2244 (D4) Cyclomethicone**

Chemical Name: Octamethylcyclotetrasiloxane

Synonyms: Cyclic Tetramer, D4

Chemical Family: Organosilane

Formula: C₈H₂₄O₄Si₄

Hmis Codes: Flammability: 2 Reactivity: 0 Health: 1

NFPA Codes Flammability: 2 Reactivity: 0 Health: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
Octamethylcyclotetrasiloxane	556-67-2	100%	Not established

*Combustible liquid

PHYSICAL DATA

Boiling Point: 175-6°C

Specific Gravity: 0.95

Vapor Density (air = 1): >1

% Volatiles: 100

Molecular Weight: 296.61 Viscosity: 2.3cSt

Appearance & Color: Clear, nearly odorless liquid

Freezing Point: (17-18°C)

Vapor Pressure, 23°: 0.75mmHg (20°C)

Solubility in water: insoluble (50□g/L)

Evaporation rate: N/A

FIRE & EXPLOSION DATA

Flash Point, TCC: 54°C (134°F) (PMCC)

Flammability Limits- LEL: 0.75%

Autoignition Temp.: 400°C (752°F)

UEL: 7.4%

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.

Irritation, skin - rabbit: 500mg/24H: mild

Irritation, eye - rabbit: 500mg/24H: mild

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. Containers require grounding during use.

TRANSPORTATION

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

TECHNICAL NAME: (OCTAMETHYLCYCLOTETRASILOXANE)

DOT HAZARD CLASS: 3

DOT LABELS: Flammable Liquid

DOT ID No: UN1993

PG: III

The information below applies only to containers over 119 gallons or 450-liters. Lower quantities are considered non-hazardous under DOT regulations.

ID No. (49CFR 172.101): NA 1993

Hazard Class (49CFR 172.101): C

Packaging Group (49CFR 172.101): III

Proper Shipping Name: (49CFR 172.101): Combustible Liquid, N.O.S.

Technical Shipping Name: Organosiloxane

DOT Reportability Quantity: (49CFR 172.101, APP):

Hazardous Substances Name/CAS, Contents and RQ: Not Applicable

IATA/IMDG

PROPER SHIPPING NAME: FLAMMABLE LIQUIS N.O.S.

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HAZARD CLASS: 3

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Prepared by safety and environmental affairs

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