

**MATERIAL SAFETY  
DATA SHEET**

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NAME USED ON LABEL: OCTAMETHYLCYCLOTETRASILOXANE  
CHEMICAL NAME: OCTAMETHYLCYCLOTETRASILOXANE  
SYNONYMS: CYCLIC TETRAMER, D4  
CHEMICAL FAMILY: ORGANOSILANE  
FORMULA: C<sub>8</sub>H<sub>24</sub>O<sub>4</sub>Si<sub>4</sub>  
HMIS CODES HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0

**INGREDIENTS**

| IDENTITY                     | CAS NO.  | %   | TLV             |
|------------------------------|----------|-----|-----------------|
| OCTAMETHYLCYCLOTETRASILOXANE | 556-67-2 | >97 | not established |

**PHYSICAL DATA**

|   |   |
|---|---|
| Boiling Point: 175-6°C                            | Freezing Point: (17-18°C)               |
| Specific Gravity: 0.956                           | Vapor Pressure, 23°: 1mm                |
| Vapor Density (air = 1): >1                       | Solubility in water: insoluble (50µg/L) |
| % volatiles: 100                                  | Evaporation rate: N/A                   |
| Molecular Weight: 296.61                          | Viscosity: 2.3 cSt                      |
| Appearance & Color: Clear, nearly odorless liquid |   |

**FIRE & EXPLOSION DATA**

Flash Point, TCC: 51°C (123°F) Autoignition Temp.: 400°C (752°F)  
Flammability Limits- LEL: 0.75% 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

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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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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.

(OCTAMETHYLCYCLOTETRASILOXANE)

DOT HAZARD CLASS: 3

DOT LABELS: Flammable Liquid

DOT ID No: UN1993 PG: III

The information contained in this document has been gathered from reference materials and/or Sibond test data and is to the best knowledge and belief of Sibond accurate and reliable. Such

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