

# Appendix W. SILICONE OIL – MANUFACTURER’S MSDS

## W.1 VISCOSITY = 3 cSt, SG = .88 (SECTION LENGTH ≤ 50M)

### CLEARCO PRODUCTS

3430 G Progress Drive, Bensalem, PA 19020

Phone: (215) 639-2640

MATERIAL SAFETY EMERGENCY TELEPHONE

DATA SHEET CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **POLYDIMETHYLSILOXANE – PSF-3cSt**

CHEMICAL NAME: POLY(DIMETHYLSILOXANE), TRIMETHYLSILOXY TERMINATED

SYNONYMS: DIMETHYLSILOXANE

CHEMICAL FAMILY: SILICONE

HMIS CODES HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

### INGREDIENTS

| IDENTITY                     | CAS NO.   | %   | TLV OSHA PEL    |
|------------------------------|-----------|-----|-----------------|
| Polydimethylsiloxanes        | 9016-00-6 | >80 | Not established |
| Dodecamethylpentasiloxane    | 141-63-9  | <20 | Not established |
| Decamethyltetrasiloxane      | 141-62-8  | <5  | Not established |
| Octamethylcyclotetrasiloxane | 556-67-2  | <2  | Not established |

### PHYSICAL DATA

Boiling Point: >105°C at 2 mm Freezing Point: <-40°C

Specific Gravity: 0.88 Vapor Pressure: not determined

Vapor Density (air = 1): NA Solubility in water: insoluble

% volatiles: NA Evaporation rate: NA

Molecular Weight: 410-620 Viscosity: 3cSt.

Appearance & Color: Clear, odorless liquid

### FIRE & EXPLOSION DATA

Flash Point, COC: 100°C (212°F) Auto ignition Temp: 438°C

Flammability Limits- LEL: NA UEL: NA

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.

### ENVIRONMENTAL INFORMATION

Spill response: Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Follow all chemical pollution control regulations.

#### **HEALTH HAZARD DATA**

Eye Contact: Will cause immediate or delayed severe eye irritation.

Skin contact: No information available. Avoid contact.

Inhalation: No information available. Avoid inhalation.

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. Call a physician.

**INGESTION:** Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

#### **REACTIVITY DATA**

Stability: Stable.

Conditions to avoid: Store away from oxidizers

Incompatibility (materials to avoid): Avoid contact with peroxides, oxidizing agents.

Hazardous decomposition products: Organic Acid Vapors, formaldehyde and silicon dioxide..

#### **SPECIAL PROTECTION INFORMATION**

Ventilation: Local exhaust is recommended. 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: Oils, lubricating, O/T Petroleum, NOI

DOT HAZARD CLASS: None required

DOT LABELS: None required

DOT ID No: None required

Prepared by safety and environmental affairs ISSUE DATE PSF-3cSt: 6/14/04

SUPERSEDES: NONE

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## W.2 VISCOSITY = 5 cSt, SG = .91 (SECTION LENGTH = 100M)

### MATERIAL SAFETY DATA SHEET

Product Identification: **PURE SILICONE FLUID 5cSt**  
CLEARCO PRODUCTS CO., INC Emergency Telephone Number  
3430-G PROGRESS DR CHEM-TEL: 1 (800) 255 3924  
BENSALEM, PA 19020  
Telephone: 1 (800) 533 5823 Date Prepared: 03/22/04 nc

### SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

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| INGREDIENT DESCRIPTION | % Weight | CAS Number | ACGIHPP M | TLV MG/M3 | ACGIHPP M | STEL MG/M3 | OSHA PPM | PEL MG/M3 | SARA 313 |
|------------------------|----------|------------|-----------|-----------|-----------|------------|----------|-----------|----------|
| Dimethylpolysiloxane   | 100%     | 63148-62-9 | N/E       | N/E       | N/E       | N/E        | N/E      | N/E       | N/E      |

#### HMIS RATING

FLAMMABILITY 1 REACTIVITY 0 HEALTH 0

### SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point >35°C  
Specific Gravity (H<sub>2</sub>O=1) 0.915  
Vapor Pressure (20°C) Negligible.  
Vapor Density (Air = 1): Negligible.  
Evaporation Rate (EE=1) <1  
Melting Point N/A  
Solubility In Water (20°C) Insoluble  
Solubility in Organic Solvent Soluble in Toluene  
Appearance & Odor: Clear colorless liquid - Odorless

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point: (Method Used) >214°F / 101.1°C (Closed Cup)  
Flammable Limits: LEL: No Data UEL: No Data  
Extinguishing Media: All standard firefighting media  
Special Fire Fighting Procedures: None Known

### SECTION V - REACTIVITY DATA

Stability: Stable  
Conditions to Avoid: NONE  
Hazard Polymerization: Will Not Occur  
Incompatibilities: None Known  
Hazardous Decomposition/Combustion: Carbon Monoxide, Carbon Dioxide, Silicone Dioxide & Formaldehyde

### SECTION VI HEALTH HAZARD DATA

**Acute Signs/Effects of Overexposure:**  
Eye Contact: May cause Mild Eye Irritation.  
Skin Contact: None Known.  
Inhalation: None Known.  
Ingestion: None Known.  
Medical Conditions Aggravated: None Known  
Other: None Known  
Chronic Effects of Overexposure: None Known  
**Emergency and First Aid Procedures:**  
Ingestion None Known  
Skin Wash with soap and water

Inhalation None Known

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

This product or one of its ingredients present 0.1% or more is not listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

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## **SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

Spill Response: Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard.

Disposal Method: Disposal should be made in accordance with Federal, State and Local regulations. Incineration recommended in approved incinerator according to Federal, State, and Local regulations..

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## **SECTION VIII - PROTECTION AND PRECAUTIONS**

Ventilation: None Known

Respiratory Protection: None Known

Eye and Face Protection: Safety Glasses

Protective Gloves: None Known

Other Protective Equipment: None Known

Precautions to be taken in Handling and Storage: None Known

Engineering Controls: None Known

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## **SECTION IX - DEPARTMENT OF TRANSPORTATION DATA**

DOT Proper Shipping Name: None

DOT Hazard Class: None

DOT Labels: None

UN/NA Number: None

Placards: None

Export: None

EPA Hazard Waste: None

Sara Hazard Class:

WHMIS Hazard Class: No Known WHMIS Class

CPSC Classification None

Transportation Class: None

RID (OCTI) None

ADR (ECE) None

RAR (IATA) None

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