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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME ON LABEL: DPDM-400 High Temperature Bath Fluid

**CHEMICAL NAME:** Diphenyl-Dimethylpolysiloxane

CHEMICAL FAMILY: SILICONE FLUID

Synonyms: Dimethyl-Diphenylsiloxane, methylphenylsiloxane, Diphenylsiloxane-Dimethylsiloxane

HMIS CODES HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

**INGREDIENTS**

| IDENTITY                  | CAS NO.    | %   | TLV OSHA PEL    |
|---------------------------|------------|-----|-----------------|
| Diphenyl-dimethylsiloxane | 68083-14-7 | 100 | not established |

Boiling Point: Not Applicable

Specific Gravity: 1.07 (25°C)

Vapor Density, air = 1: NA

Evaporation rate: Negligible (Butyl Acetate=1)

Appearance & Color: Colorless, transparent

**PHYSICAL DATA**

Melting Point: Not Applicable

Vapor Pressure: Negligible (25°C)

Solubility in water: Not Soluble (<1 ppm)

Viscosity: 400cSt

**FIRE & EXPLOSION DATA**

Flash Point (method used):

>300°C (Open cup)

>94°C (Closed cup)

Flammability Limits: LEL: NA UEL: NA

Extinguishing Media: Foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Not required.

Unusual Fire and Explosion Hazards: None

**ENVIRONMENTAL INFORMATION**

Step to be taken in case material is released or spilled: Contain the spill or leak. Scrape up with cardboard or rag and place in container.

Recommended Disposal: Can be burned in a chemical incinerator equipped with an afterburner and scrubber.

Do not dispose the emptied container unlawfully.

Observe all federal, state and local laws.

**HEALTH HAZARD DATA**

Eye Contact: May cause slight eyes irritation.

Skin contact: May cause slight skin irritation, but no significant effect.

Ingestion: Low harmful

**SUGGESTED FIRST AID**

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes.

SKIN: Remove product from skin with dry cloth or towel, and wash exposed area with detergent.

INGESTION: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Call a physician immediately.

## REACTIVITY DATA

Stability: Stable  
Conditions to avoid: None.  
Incompatibility (material to avoid): None  
Hazardous Decomposition or By- Products: None  
Hazardous Polymerization: Will not occur

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is recommended. If operating at temperatures above 175°C, ventilation is required. 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.  
Acute Toxicity (LD50): LD50 (Oral.Rat) : >5g/kg  
Chronic Toxicity: No information is available  
Carcinogenicity: NTP: Not listed, IARC: Not listed, OSHA Regulated: Not listed  
Other Information: This product can generate formaldehyde at approximately 150 degrees C (300F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles or protective clothing when this product is heated at approximately 150 degrees C (300F) and above in the presence of air.

## OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers.

## TRANSPORTATION

UN No: None  
IMO Classification and Class: None  
Packaging Group: None  
Proper Shipping Name: None  
Technical Shipping Name: None  
Marine Pollutant: None  
DOT Reportable Quantity (RQ):  
Hazard Substance (s) Name/ (CAS No.), Contents and RQ Not applicable

Prepared by safety and environmental affairs    ISSUE DATE: 5/14/2007  
SUPERSEDES:

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