

L-45-500FG Polydimethylsiloxane

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By: Momentive Performance Materials
3500 South State Route 2
FRIENDLY WV 26146

Revised: 08/28/2007

Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS
CHEMTREC 1-800-424-9300

Chemical Family/Use: Silicone fluid
Formula: Polydimethylsiloxane

HMIS

Flammability: 1 Reactivity: 0 Health: 0

NFPA

Flammability: 1 Reactivity: 0 Health: 0

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Attention! This material is not considered hazardous by the OSHA Hazard Communication Standard 29 CFR 1910.1200

Form: Liquid Color: Clear, colorless Odor: Mild

POTENTIAL HEALTH EFFECTS

INGESTION

No adverse effects are expected under normal conditions of use.

SKIN

No adverse effects are expected under normal conditions of use.

INHALATION

No adverse effects are expected under normal conditions of use.

EYES

No adverse effects are expected under normal conditions of use.

MEDICAL CONDITIONS AGGRAVATED

None known.

SUBCHRONIC (TARGET ORGAN)

None known.

CHRONIC EFFECTS / CARCINOGENICITY

For additional information, please see Section 11, Toxicological Information.

L-45-500FG
Polydimethylsiloxane

ROUTES OF EXPOSURE
No anticipated routes of exposure

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
----------------------------	--------------------	---------------

A. HAZARDOUS

B. NON-HAZARDOUS

Siloxanes and Silicones, di-me	63148-62-9	> 90 %
--------------------------------	------------	--------

4. FIRST AID MEASURES

INGESTION
No emergency care anticipated.

SKIN
Wash off with soap and water.

INHALATION
No emergency care anticipated.

EYES
Rinse with plenty of water.

NOTE TO PHYSICIAN
There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

FLASH POINT:	> 204 °C; > 399 °F
METHOD:	Pensky-Martens closed cup ASTM D 93
FLAMMABLE LIMITS IN AIR - LOWER (%):	Not available
FLAMMABLE LIMITS IN AIR - UPPER (%):	Not available

SENSITIVITY TO MECHANICAL IMPACT: No

SENSITIVITY TO STATIC DISCHARGE
Sensitivity to static discharge is not expected.

L-45-500FG **Polydimethylsiloxane**

EXTINGUISHING MEDIA

All standard extinguishing agents are suitable.

SPECIAL FIRE FIGHTING PROCEDURES

Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

Precautions for fire-fighting

This material may produce a floating fire hazard.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

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. Wear proper protective equipment as specified in the protective equipment section.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from children. Attention: Not for injection into humans. May generate formaldehyde at temperatures greater than 150 C (300 F). See Section 10 of MSDS for details.

STORAGE

Keep container closed. Store in original container.

FURTHER INFORMATION ON STORAGE CONDITIONS

No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

Use only in an area equipped with a safety shower.; Eye wash bottle with pure water; Ensure adequate ventilation, especially in confined areas.

RESPIRATORY PROTECTION

No personal respiratory protective equipment normally required. If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

L-45-500FG
Polydimethylsiloxane

PROTECTIVE GLOVES

Impermeable or chemical resistant gloves.

EYE AND FACE PROTECTION

Safety glasses with side-shields

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

Component	CAS RN	Source	Value
-----------	--------	--------	-------

Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F:	> 200 °C; > 392 °F; Polymer
VAPOR PRESSURE (20 C) (MM HG):	< 1
VAPOR DENSITY (AIR=1):	Heavier than air
FREEZING POINT:	< -25 °C; < -13 °F
MELTING POINT:	< -25 °C; < -13 °F
PHYSICAL STATE:	Liquid
ODOR:	Mild
COLOR:	Clear, colorless
EVAPORATION RATE (BUTYL ACETATE=1):	< 1
DENSITY:	0.9700 g/cm ³
pH:	No data available
SOLUBILITY IN WATER (20 C):	Insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Slightly in Toluene
VOC EXCL. H₂O & EXEMPTS (G/L):	0

10. STABILITY AND REACTIVITY

STABILITY

Stable

HAZARDOUS POLYMERIZATION

Will not occur

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Burning can produce the following combustion products:; Oxides of carbon.; Oxides of silicon.;

L-45-500FG
Polydimethylsiloxane

Formaldehyde; Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.; Acute overexposure to the products of combustion may result in irritation of the respiratory tract.; This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive.

INCOMPATIBILITY (MATERIALS TO AVOID)

None known.

CONDITIONS TO AVOID

None known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL

LD50; Species: Rat.; > 5,000 mg/kg; Remarks: Very low order of toxicity

ACUTE DERMAL

LD50; Species: Rabbit.; > 10,000 mg/kg; Remarks: Very low order of toxicity

ACUTE INHALATION

LC50; Species: Rat.; > 535 mg/l; Remarks: Very low order of toxicity

OTHER

Non-irritating to skin (rbt).

SENSITIZATION

Test Type: Sensitisation, skin; Species: guinea pig; Result: Negative. Method: Magnusson-Kligmann. Did not cause sensitization on laboratory animals.

SKIN IRRITATION

No skin irritation

EYE IRRITATION

Species: Rabbit. ; No eye irritation

MUTAGENICITY

Negative in the Ames test.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish

Fresh water LC50

L-45-500FG
Polydimethylsiloxane

Dose: > 100 mg/l

Toxicity to other organisms

Fresh water

Species: Daphnia magna

Dose: > 200 mg/l

Toxicity to microorganisms

Fresh water IC50

Species: Bacteria

Dose: > 1,000 mg/l

Elimination information (persistence and degradability)

Bioaccumulation

Bioconcentration factor (BCF): < 100

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Further Information:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

15. REGULATORY INFORMATION

Inventories

Australia Inventory of Chemical Substances (AICS)	y (Positive listing)
Canada DSL Inventory	y (Positive listing)
EU list of existing chemical substances	y (Positive listing)
Japan Inventory of Existing & New Chemical Substances (ENCS)	y (Positive listing)
China Inventory of Existing	y (Positive listing)

L-45-500FG
Polydimethylsiloxane

Chemical Substances

Korea Existing Chemicals Inventory (KECI) y (Positive listing)

Philippines Inventory of Chemicals and Chemical Substances (PICCS) y (Positive listing)

TSCA list y (Positive listing)

For inventories that are marked as quantity restricted or special cases, please contact Momentive.

US Regulatory Information

SARA (311,312) HAZARD CLASS

No SARA Hazards

SARA (313) CHEMICALS

Canadian Regulatory Information

WHMIS HAZARD CLASS

NON-CONTROLLED

CALIFORNIA PROPOSITION 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

OTHER

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate., C = ceiling limit NEGL = negligible EST = estimated NF = none found
NA = not applicable UNKN = unknown NE = none established REC = recommended ND = none determined V = recommended by vendor SKN = skin TS = trade secret R = recommended MST = mist NT = not tested STEL = short term exposure limit ppm = parts per million ppb = parts per billion By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2).