



**MOMENTIVE**  
performance materials

Version: 1.2  
04/01/2009

**Element14\* PDMS 5**  
**Polydimethylsiloxane**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Manufactured By:** Waterford Plant  
260 Hudson River Rd  
Waterford NY 12188

**Revised:** 04/01/2009

**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. May cause slight irritation. May cause: - swelling of the conjunctivae

**MEDICAL CONDITIONS AGGRAVATED**

None known.

**SUBCHRONIC (TARGET ORGAN )**

None known.



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**CHRONIC EFFECTS / CARCINOGENICITY**

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

**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>
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**A. HAZARDOUS**

**B. NON-HAZARDOUS**

Polydimethylsiloxane	63148-62-9	60 - 100 %
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**4. FIRST AID MEASURES**

**INGESTION**

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

**SKIN**

Wash off with soap and water. Get medical attention if symptoms occur.

**INHALATION**

If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

**EYES**

Rinse with plenty of water. If symptoms persist, call a physician.

**NOTE TO PHYSICIAN**

Treatment is symptomatic and supportive.

**5. FIRE-FIGHTING MEASURES**

**FLASH POINT:** > 120 °C; 248 °F



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**IGNITION TEMPERATURE:** not applicable  
**FLAMMABLE LIMITS IN AIR - LOWER (%):** not applicable  
**FLAMMABLE LIMITS IN AIR - UPPER (%):** not applicable

**SENSITIVITY TO MECHANICAL IMPACT:** No

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

**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.

### 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 container closed when not in use. 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 containers tightly closed in a cool, well-ventilated place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS**  
Eyewash stations; Showers; Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

**RESPIRATORY PROTECTION**  
If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved



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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).

**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
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Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average; INTL REL - Internal Recommended Exposure Limit

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**

<b>BOILING POINT - C &amp; F:</b>	>200 °C; 392 °F; Polymer
<b>VAPOR PRESSURE (20 C) (MM HG):</b>	1
<b>VAPOR DENSITY (AIR=1):</b>	> 1
<b>FREEZING POINT:</b>	ca. -100 °C; -148 °F
<b>PHYSICAL STATE:</b>	Liquid
<b>ODOR:</b>	Mild
<b>COLOR:</b>	Clear, colorless.
<b>EVAPORATION RATE (BUTYL ACETATE=1):</b>	< 1
<b>DENSITY:</b>	0.916 g/cm3
<b>ACID / ALKALINITY (MEQ/G):</b>	No data available
<b>pH:</b>	not applicable
<b>SOLUBILITY IN WATER (20 C):</b>	insoluble
<b>SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):</b>	Slightly in Toluene

**10. STABILITY AND REACTIVITY**

**STABILITY**  
Stable



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**HAZARDOUS POLYMERIZATION**

Will not occur.

**HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS**

Burning can produce the following combustion products:; Carbon dioxide (CO<sub>2</sub>); Carbon monoxide; Silicon dioxide.; 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;

**ACUTE DERMAL**

LD50; Species: rabbit; > 10,000 mg/kg; Remarks: very low acute toxicity

**ACUTE INHALATION**

LC50; Species: rat; > 535 mg/l; Remarks: very low acute toxicity

**OTHER**

No data available

**SENSITIZATION**

Test Type: Magnusson-Kligmann; Species: guinea pig; Result: Negative. Method: OECD-Guideline 406 (Skin Sensitisation). Did not cause sensitization on laboratory animals.

**SKIN IRRITATION**

Species: rabbit; Result: No skin irritation

**EYE IRRITATION**

Species: rabbit ; Result: No eye irritation

**MUTAGENICITY**

Negative in the Ames test.



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**12. ECOLOGICAL INFORMATION**

**ECOTOXICITY**

No data available

**DISTRIBUTION**

No data available

**CHEMICAL FATE**

No data available

**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**

Canada DSL Inventory	y (positive listing)	
Japan Inventory of Existing & New Chemical Substances (ENCS)	y (positive listing)	
Korea Existing Chemicals Inventory (KECI)	y (positive listing)	
China Inventory of Existing Chemical Substances	y (positive listing)	
Australia Inventory of Chemical Substances (AICS)	y (positive listing)	
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	y (positive listing)	
TSCA list	y (positive listing)	On TSCA Inventory
EU list of existing chemical substances	y (positive listing)	



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Canada NDSL Inventory                      n (Negative 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**

**CALIFORNIA PROPOSITION 65**

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

**Canadian Regulatory Information**

**WHMIS HAZARD CLASS**  
- Non-controlled.

**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).