Material Safety Data Sheet  

Silsoft® Silicone Gel  
Silicone Gel  

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  

Manufactured By: Momentive Performance Materials  
3500 South State Route 2  
FRIENDLY WV 26146  
Revised: 05/30/2007  
Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS  
CHEMTREC 1-800-424-9300  
Chemical Family/Use: Personal Care Formulary  
Formula: Silicone Gel  
HMIS Flammability: 2 Reactivity: 0 Health: 1 Prot. Equipm.:  
NFPA Flammability: 2 Reactivity: 0 Health: 1 Special Haz.:  

2. COMPOSITION/INFORMATION ON INGREDIENTS  

<table>
<thead>
<tr>
<th>PRODUCT COMPOSITION</th>
<th>CAS REG NO.</th>
<th>WGT. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. HAZARDOUS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decamethylcyclopentasiloxane</td>
<td>541-02-6</td>
<td>&gt; 90 %</td>
</tr>
<tr>
<td>B. NON-HAZARDOUS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade Secret Silicone Gel</td>
<td>NJTSRN# 26175-25495</td>
<td>5 - 10 %</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION  

EMERGENCY OVERVIEW  
CAUTION! Combustible. May cause liver damage.  
Form: Gel  
Color: No data available  
Odor: No data available  
POTENTIAL HEALTH EFFECTS  

INGESTION  
Low toxicity. Swallowing large volumes may increase the liver size.  

SKIN  
No evidence of harmful effects from available information.
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INHALATION
Short-term harmful health effects are not expected from vapor generated at ambient temperature.
Repeated overexposure to vapor or aerosol may cause: - increase in liver size (Hyperplasia)

EYES
May cause: - mild discomfort

MEDICAL CONDITIONS AGGRAVATED
A knowledge of the available toxicology information and of the physical and chemical properties
of the material suggests that overexposure is unlikely to aggravate existing medical conditions.

SUBCHRONIC (TARGET ORGAN)
Liver

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

4. FIRST AID MEASURES

INGESTION
Do not induce vomiting. If victim is conscious, give 1-3 glasses of water to drink. Never give
anything by mouth to an unconscious person. Get medical attention if irritation persists.

SKIN
Wash with soap and water. Get medical attention if irritation or symptoms from Section 3
develop.

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

NOTE TO PHYSICIAN
Treatment is symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

FLASH POINT:
77 °C; 171 °F

METHOD:
Pensky-Martens closed cup ASTM D 93
(estimated)
IGNITION TEMPERATURE: No data available
FLAMMABLE LIMITS IN AIR - LOWER (%): No data available
FLAMMABLE LIMITS IN AIR - UPPER (%): No data available
SENSITIVITY TO MECHANICAL IMPACT: No
SENSITIVITY TO STATIC DISCHARGE
Sensitivity to static discharge is expected; material has a flash point below 200 F.

EXTINGUISHING MEDIA
All standard extinguishing agents are suitable.

SPECIAL FIRE FIGHTING PROCEDURES
Combustible. 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
Warn other workers of spill. Remove all sources of ignition. Wear proper protective equipment as specified in the protective equipment section. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.

7. HANDLING AND STORAGE

STORAGE
Keep container closed. Store in original container. Keep from freezing.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Use ground strap and appropriate precautions for dispensing flammable liquids. Use only spark-proof and explosion-proof tools and equipment. Avoid contact with skin, eyes and clothing. 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS
Eyewash stations; Showers; Exhaust ventilation; 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 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 29 CFR 1910.134).

PROTECTIVE GLOVES
impermeable or chemical resistant gloves.

EYE AND FACE PROTECTION
Safety glasses with side-shields; Monogoggles.

OTHER PROTECTIVE EQUIPMENT
Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS RN</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decamethyloclopentasiloxane</td>
<td>541-02-6</td>
<td>Z.setInt_OEL, REL</td>
<td>10 ppm</td>
</tr>
</tbody>
</table>

Absence of values indicates none found

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


9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F:
VAPOR PRESSURE (20 C) (MM HG):
VAPOR DENSITY (AIR=1):
FREEZING POINT:
MELTING POINT:
PHYSICAL STATE: Gel
ODOR: No data available
COLOR: No data available
EVAPORATION RATE (BUTYL ACETATE=1):
SPECIFIC GRAVITY (WATER=1): 0.87 (estimated)
DENSITY: 0.87 g/cm3 (estimated)
ACID / ALKALINITY (MEQ/G):
pH: No data available
VOLATILE ORGANIC CONTENT (VOL):
SOLUBILITY IN WATER (20 C): Insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):
VOC EXCL. H2O & EXEMPTS (G/L):

No data available
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; Formaldehyde; This product contains components which can generate formaldehyde at approximately 300 F (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. An MSDS for formaldehyde is available from Momentive Performance Materials, Inc.; 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.

INCOMPATIBILITY (MATERIALS TO AVOID)

CONDITIONS TO AVOID
None known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL
Remarks: Unknown

ACUTE DERMAL
Remarks: Unknown

ACUTE INHALATION
Remarks: Unknown

OTHER
A 90-day inhalation study with decamethylcyclopentsilosoxane in rats showed a statistically significant increase in liver weights in females at 50 ppm (0.75 mg/L) and in males at 232 ppm (3.53 mg/L). This was reversible over a 28-day recovery period. The no-observed-adverse-effect-level was 29 ppm (0.44 mg/L). In a two-generation reproductive study in rats, the NOAEL for parental toxicity, reproductive toxicity, neonatal toxicity, and developmental neurotoxicity was determined to be 160 ppm, the highest concentration tested. A 2 year combined chronic/carcinogenicity assay was conducted on decamethylcyclopentsiloxyxane (D5). Fischer-344 rats were exposed by whole-body vapor inhalation 6 hrs/day, 5 days/week for up to 24 months to 0, 10, 40 or 160 ppm of D5. A statistically significant increase in the trend for uterine endometrial tumors was observed in female rats exposed for 24 months at 160 ppm. The 160 ppm exposure concentration greatly exceeds workplace or consumer exposure. It is unlikely that industrial, commercial or consumer uses of products containing D5 would result in a significant risk to humans. The exposure guideline will be reevaluated when a better understanding of the significance of this new data is developed.
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SENSITIZATION
No data available

SKIN IRRITATION
No data available

EYE IRRITATION
No data available

MUTAGENICITY
Unknown

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY
No data available

CHEMICAL FATE
No data available

DISTRIBUTION
No data available

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Combustible liquid, n.o.s. (Decamethylcyclopentasiloxane)
DOT HAZARD CLASS: CBL
DOT LABEL (S): NON
UN/NA NUMBER: NA 1993
PACKING GROUP: III

15. REGULATORY INFORMATION

Inventories
Canada DSL Inventory n (Negative listing)
Canada NDSL Inventory n (Negative listing)
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Japan Inventory of Existing & New Chemical Substances (ENCS)
Korea Existing Chemicals Inventory (KECI)
China Inventory of Existing Chemical Substances
Australia Inventory of Chemical Substances (AICS)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)
TSCA list

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

US Regulatory Information

CERCLA
PRODUCT COMPOSITION Chemical

CERCLA Reportable Quantity

CLEAN AIR ACT

CLEAN WATER ACT

SARA SECTION 302

SARA (311,312) HAZARD CLASS
Fire Hazard

SARA (313) CHEMICALS

Canadian Regulatory Information

WHMIS HAZARD CLASS
D2A VERY TOXIC MATERIALS, D2B TOXIC MATERIALS, Combustible Liquid

Other

SCHEDLE BI/HETSUS:

ECCN:

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),. This product is intended only for personal care applications. It is not intended for industrial use; therefore, it is not subject to TSCA.