SAFETY DATA SHEET

1. Identification

Product identifier: Silsoft* Silicone Gel

Other means of identification
Synonyms: Silicone Gel

Recommended use and restriction on use
Recommended use: Component in personal care products
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information
Momentine Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Contact person: commercial.services@momentive.com

Telephone: General information
+1-800-295-2392

Emergency telephone number
Supplier: CHEMTREC
1-800-424-9300

2. Hazard(s) Identification

Hazard Classification

Physical Hazards
Flammable liquids Category 4

Health Hazards
Toxic to reproduction Category 2

Unknown toxicity - Health

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, oral</td>
<td>0 %</td>
</tr>
<tr>
<td>Acute toxicity, dermal</td>
<td>0 %</td>
</tr>
<tr>
<td>Acute toxicity, inhalation, vapor</td>
<td>0 %</td>
</tr>
<tr>
<td>Acute toxicity, inhalation, dust or mist</td>
<td>0 %</td>
</tr>
</tbody>
</table>
Hazard Symbol:

Signal Word: Warning

Hazard Statement: H227; Combustible liquid.
H361; Suspected of damaging fertility or the unborn child.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response: IF exposed or concerned: Get medical advice/attention. In case of fire: Use … for extinction.

Storage: Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.

Substance(s) formed under the conditions of use: Cyclic siloxane(s).

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>556-67-2</td>
<td>0.1 - &lt;1%</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
4. First-aid measures

**Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water. If swallowed, rinse mouth with water (only if the person is conscious). If vomiting occurs naturally, lie on side in recovery position. 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.

**Skin Contact:** Rinse immediately with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** Treatment is symptomatic and supportive.

**Hazards:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** No data available.

5. Fire-fighting measures

**General Fire Hazards:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** All standard extinguishing agents are suitable.

**Unsuitable extinguishing media:** water jet

**Specific hazards arising from the chemical:** No data available.

**Special protective equipment and precautions for firefighters**
**Special fire fighting procedures:**
Keep away from combustible material. When using do not smoke. Do not empty into drains.

**Special protective equipment for fire-fighters:**
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

**Personal precautions, protective equipment and emergency procedures:** Ground container and transfer equipment to eliminate static electric sparks. Remove sources of ignition. Avoid contact with eyes, skin, and clothing. Keep out of reach of children. Attention: Not for injection into humans.

**Methods and material for containment and cleaning up:** Warn other workers of spill. 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

**Precautions for safe handling:** Sensitivity to static discharge is expected; material has a flash point below 200 F.

**Conditions for safe storage, including any incompatibilities:** Keep container closed. Store in original container.

### 8. Exposure controls/personal protection

**Control Parameters**

**Occupational Exposure Limits**
None of the components have assigned exposure limits.

**Appropriate Engineering Controls**
Eye wash facilities and emergency shower must be available when handling this product. Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

**Individual protection measures, such as personal protective equipment**

**General information:** Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

**Eye/face protection:** Safety glasses with side shields Monogoggles
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Skin Protection
Hand Protection: Chemical resistant gloves
Other: Wear suitable protective clothing and eye/face protection.
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 29CFR 1910.134).

Hygiene measures: No data available.

9. Physical and chemical properties

Appearance
Physical state: liquid
Form: Gel
Color: Colorless
Odor: Mild
Odor threshold: No data available.
PH: No data available.
Melting point/freezing point: No data available.
Initial boiling point and boiling range: No data available.
Flash Point: ca. 77 °C (ASTM D 93)
Evaporation rate: < 1 (n-Butyl acetate=1)
Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits
Flammability limit - upper (%): No data available.
Flammability limit - lower (%): No data available.
Explosive limit - upper (%): No data available.
Explosive limit - lower (%): No data available.
Heat of combustion: No data available.

Vapor pressure: < 1.33 hPa
Vapor density: Vapors are heavier than air and may spread near ground to sources of ignition.
Density: 0.87 g/cm3 estimated
Relative density: 0.87 estimated
Solubility(ies)
Solubility in water: Insoluble
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Solubility (other): No data available.
Partition coefficient (n-octanol/water) Log Pow: No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
SADT: No data available.
Viscosity, dynamic: No data available.
Viscosity, kinematic: No data available.
VOC: No data available.

10. Stability and reactivity

Reactivity: No dangerous reaction if used as recommended.
Chemical Stability: No data available.
Possibility of hazardous reactions: Hazardous polymerisation does not occur.
Conditions to avoid: None known.
Hazardous Decomposition Products: No data available.

11. Toxicological information

Information on likely routes of exposure
Ingestion: No data available.
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics
Ingestion: No data available.
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.
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Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):
Octamethylcyclotetrasiloxane
LD 50 (Rat): 4,800 mg/kg
LD 50 (Mouse): 1,700 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s):
Octamethylcyclotetrasiloxane
LD 50 (Rat): 2,400 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s):
Octamethylcyclotetrasiloxane
LC50 (Rat): 12.1 mg/l
LC50 (Rat): 36 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

No carcinogenic components identified

Germ Cell Mutagenicity

**In vitro**
- **Product:** No data available.

**Specified substance(s):**
- Octamethylcyclotetrasiloxane
  - Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)
  - Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)

**In vivo**
- **Product:** No data available.

**Specified substance(s):**
- Octamethylcyclotetrasiloxane
  - Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative

Reproductive toxicity
- **Product:** No data available.

Specific Target Organ Toxicity - Single Exposure
- **Product:** No data available.

Specific Target Organ Toxicity - Repeated Exposure
- **Product:** No data available.

Aspiration Hazard
- **Product:** No data available.
Other effects:

A 90-day inhalation study with decamethylcyclopentasiloxane 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 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 decamethylcyclopentasiloxane (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.

Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day, 14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level—a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.
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Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Oral No data available.

Dermal No data available.

Inhalation No data available.

Repeated dose toxicity No data available.

Skin Corrosion/Irritation No data available.

Serious Eye Damage/Eye Irritation No data available.

Respiratory or Skin Sensitization No data available.

Carcinogenicity No data available.


US. National Toxicology Program (NTP) Report on Carcinogens: No data available.
No data available.

Germ Cell Mutagenicity
In vitro
No data available.

Germ Cell Mutagenicity
In vivo
No data available.

Reproductive toxicity
No data available.

Specific Target Organ Toxicity - Single Exposure
No data available.

Specific Target Organ Toxicity - Single Exposure
No data available.

Target Organs
No data available.

Aspiration Hazard
No data available.

Other effects
No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Chronic hazards to the aquatic environment:

Fish
Silsoft* Silicone Gel

Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: No data available.

Specified substance(s):
Octamethylcyclotetrasiloxane 3.7 % (29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace Test)) Not readily biodegradable.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)
Product: No data available.

Specified substance(s):
Octamethylcyclotetrasiloxane Fathead Minnow, Bioconcentration Factor (BCF): 12.40

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments
Octamethylcyclotetrasiloxane No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Disposal should be made in accordance with federal, state and local regulations.
Contaminated Packaging: No data available.

14. Transport information

**DOT**
- UN Number: NA 1993
- UN Proper Shipping Name: Combustible liquid, n.o.s.
- Transport Hazard Class(es): CBL
- Label(s): NONE
- Packing Group: III
- Marine Pollutant: No

**IMDG**
- Not regulated.

**IATA**
- Not regulated.

**Special precautions for user:**
This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons. The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations.

15. Regulatory information

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**
None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**
None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

- **Hazard categories**
  - Fire Hazard
  - Delayed (Chronic) Health Hazard

- **SARA 302 Extremely Hazardous Substance**
  None present or none present in regulated quantities.

- **SARA 304 Emergency Release Notification**
  None present or none present in regulated quantities.
Silsoft® Silicone Gel

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

US State Regulations

**US. California Proposition 65**
No ingredient regulated by CA Prop 65 present.

**US. New Jersey Worker and Community Right-to-Know Act**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decamethylcyclopentasiloxane</td>
</tr>
<tr>
<td>Silicone Gel</td>
</tr>
<tr>
<td>Dodecamethylcyclohexasiloxane</td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
</tr>
</tbody>
</table>

**US. Massachusetts RTK - Substance List**
No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**
No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**
No ingredient regulated by RI Right-to-Know Law present.
Inventory Status:

<table>
<thead>
<tr>
<th>Country/Inventory</th>
<th>Status</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia AICS</td>
<td>n (Negative listing)</td>
<td>None.</td>
</tr>
<tr>
<td>EU EINECS List</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>Japan (ENCS) List</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>China Inventory of Existing</td>
<td>q (quantity restricted)</td>
<td>None.</td>
</tr>
<tr>
<td>Chemical Substances:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Korea Existing Chemicals Inv.</td>
<td>n (Negative listing)</td>
<td>None.</td>
</tr>
<tr>
<td>(KECI):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada DSL Inventory</td>
<td>q (quantity restricted)</td>
<td>None.</td>
</tr>
<tr>
<td>Canada NDSL Inventory</td>
<td>n (Negative listing)</td>
<td>None.</td>
</tr>
<tr>
<td>Philippines PICCS</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>US TSCA Inventory</td>
<td>t (temporary special case)</td>
<td>Remarks: This product is intended only for personal care applications. It is not intended for industrial use; therefore, it is not subject to TSCA.</td>
</tr>
<tr>
<td>Taiwan. Taiwan inventory (CSNN)</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
</tbody>
</table>

16. Other information, including date of preparation or last revision

HMIS Hazard ID

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>*</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Physical Hazards</td>
<td>0</td>
</tr>
</tbody>
</table>

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 03/17/2017

Revision Date: No data available.

Version #: 2.0

Further Information: No data available.
Disclaimer:

Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (>30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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