SAFETY DATA SHEET

1. Identification

Product identifier: SE30

Other means of identification
   Synonyms: Polydimethylsiloxane Gum

Recommended use and restriction on use
   Recommended use: Substance
   Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information
   Momentive 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
   Health Hazards
      Toxic to reproduction
         Category 2

Label Elements

   Hazard Symbol:

   Signal Word: Warning
Hazard Statement: Suspected of damaging fertility.

Target Organs: No data available.

Precautionary Statement:
Prevention: 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.

Storage: 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.

3. Composition/information on ingredients

Composition information of impurities and stabilizers

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>556-67-2</td>
<td>0.5 - 1.5%</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.

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: Wash area with soap and water.

Eye contact: Rinse immediately with plenty of water. Consult a physician for specific advice.
Most important symptoms/effects, acute and delayed

<table>
<thead>
<tr>
<th>Symptoms:</th>
<th>No data available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazards:</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

Indication of immediate medical attention and special treatment needed

| Treatment: | Treatment is symptomatic and supportive. |

### 5. Fire-fighting measures

**General Fire Hazards:** Use standard firefighting procedures and consider the hazards of other involved materials.

**Suitable (and unsuitable) extinguishing media**

<table>
<thead>
<tr>
<th>Suitable extinguishing media:</th>
<th>Extinguish with foam, carbon dioxide, dry powder or water fog.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media:</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

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

**Special protective equipment and precautions for firefighters**

<table>
<thead>
<tr>
<th>Special fire fighting procedures:</th>
<th>Keep away from combustible material. When using do not smoke. Do not empty into drains.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special protective equipment for fire-fighters:</td>
<td>Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.</td>
</tr>
</tbody>
</table>

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Keep container closed. Avoid contact with skin and eyes. Attention: Not for injection into humans. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:** 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.

**Environmental Precautions:** Do not allow runoff to sewer, waterway or ground.
7. Handling and storage

Precautions for safe handling: Sensitivity to static discharge is not expected.

Conditions for safe storage, including any incompatibilities: Keep away from heat, sparks and open flame. Keep out of the reach of children.

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: No data available.

Eye/face protection: Safety glasses with side shields

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: Paste
Color: Colorless
Odor: Odorless
Odor threshold: No data available.

\( \text{pH:} \) not applicable

Melting point/freezing point: No data available.

Initial boiling point and boiling range: > 260 °C (1.013 hPa) (No data available.)

Flash Point: > 150 °C

Evaporation rate: < 1

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

<table>
<thead>
<tr>
<th>Limit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability limit - upper</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flammability limit - lower</td>
<td>No data available.</td>
</tr>
<tr>
<td>Explosive limit - upper</td>
<td>No data available.</td>
</tr>
<tr>
<td>Explosive limit - lower</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

Vapor pressure: 1.33 hPa (20 °C)

Vapor density: > 1.0

Density: 1.0 g/cm³ (20 °C)

Relative density: ca. 1.0

Solubility(ies)

<table>
<thead>
<tr>
<th>Solubility in water</th>
<th>Solubility (other)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insoluble</td>
<td>Soluble in toluene</td>
</tr>
</tbody>
</table>

Partition coefficient (n-octanol/water) Log Pow: No data available.

Auto-ignition temperature: not applicable

Decomposition temperature: No data available.

SADT: No data available.

Viscosity, dynamic: No data available.

Viscosity, kinematic: No data available.

VOC: 14 g/l

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid: None known.

Incompatible Materials: None known.
Hazardous Decomposition Products: In case of fire, gives off (emits): Carbon dioxide Silicon dioxide. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

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.

Information on toxicological effects

**Acute toxicity (list all possible routes of exposure)**

- **Oral Product:** LD 50 (Rat): > 5,000 mg/kg [Polydimethylsiloxane]

- **Dermal Product:** LD 50 (Rabbit): 10,000 mg/kg [Polydimethylsiloxane]

- **Inhalation Product:**
  - Specified substance(s): Octamethylcyclotetrasiloxane
  - LC50 (Rat): 12.1 mg/l
  - LC50 (Rat): 36 mg/l

**Repeated dose toxicity Product:** (Mouse, Oral, 5 d): 25 mg/kg No adverse effects due to ingestion are expected.
Skin Corrosion/Irritation
Product: (Rabbit): No skin irritation Literature Reference

Serious Eye Damage/Eye Irritation
Product: (Rabbit): No eye irritation Literature Reference

Respiratory or Skin Sensitization
Product: Magnusson-Kligmann, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): negative Did not cause sensitization on laboratory animals.

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


Germ Cell Mutagenicity
In vitro
Product: Ames-Test: negative (not mutagenic) Literature Reference

In vivo
Product: Dominant lethal assay (OECD 478) (Mouse): negative (not mutagenic)

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.

Target Organs
Product: No data available.

Aspiration Hazard
Product: Not classified
Other effects:

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.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

| Product | No data available. |
Aquatic Invertebrates
Product: No data available.

Chronic hazards to the aquatic environment:

Fish
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:
Product: No data available.

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

Known or predicted distribution to environmental compartments
SILOXANES AND SILICONES, DI-ME

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
Not regulated.

IMDG
Not regulated.

IATA
Not regulated.

Special precautions for user: This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>OSHA hazard(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILOXANES AND SILICONES, DI-ME</td>
<td>Causes mild skin irritation.; Respiratory hazard.</td>
</tr>
<tr>
<td>Decamethylcyclopentasiloxane</td>
<td>No OSHA Hazards</td>
</tr>
<tr>
<td>Dodecamethylcyclohexasiloxane</td>
<td>No OSHA Hazards</td>
</tr>
</tbody>
</table>
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**
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.

**SARA 311/312 Hazardous Chemical**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octamethylcyclotetrasiloxyne</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**
No ingredient regulated by NJ Right-to-Know Law present.

**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>Region</th>
<th>Status</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia AICS</td>
<td>y (positive 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 Chemical Substances</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>Korea Existing Chemicals Inv. (KECI)</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>Canada DSL Inventory List</td>
<td>y (positive listing)</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>y (positive listing)</td>
<td>Remarks: On TSCA Inventory</td>
</tr>
<tr>
<td>Taiwan. Taiwan inventory</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>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>★ 1</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Physical Hazards</td>
<td>0</td>
</tr>
</tbody>
</table>

**PERSONAL PROTECTION**

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

### Issue Date:
07/11/2016

### Revision Date:
No data available.

### Version #:
1.5

### 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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