SAFETY DATA SHEET

1. Identification

Product identifier: SAG 47/PP/18KG

Other means of identification
Synonyms: Polydimethylsiloxane (modified)

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

Manufacturer/Importer/Distributor Information
: Momentive Performance Materials - Sistersville
  10851 Energy Highway
  FRIENDLY WV 26146

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
: Not classified

Label Elements
Hazard Symbol: No symbol
Signal Word: none
Hazard Statement: not applicable
Target Organs: No data available.
Precautionary Statement
Prevention: not applicable
Response: not applicable
Storage: not applicable
Disposal: not applicable
Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

Substance
Composition Comments: The components are not hazardous or are below required disclosure limits.

4. First-aid measures

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice. Never give liquid to an unconscious person.
Inhalation: Move to fresh air. Get medical attention if symptoms persist.
Skin Contact: Wash area with soap and water. Get medical attention if symptoms occur.
Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed
Symptoms: No data available.
Hazards: No data available.

Indication of immediate medical attention and special treatment needed
Treatment: There is no specific antidote. Treatment is symptomatic and supportive.

5. Fire-fighting measures

General Fire Hazards: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
Suitable (and unsuitable) extinguishing media

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

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazards arising from the chemical:** In case of fire, carbon monoxide and carbon dioxide may be formed.

Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** Keep away from sources of ignition - No smoking. All equipment used when handling the product must be grounded.

**Special protective equipment for fire-fighters:** 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:** Avoid contact with skin and eyes. Keep out of reach of children. Attention: Not for injection into humans.

**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.

**Notification Procedures:** Caution: Contaminated surfaces may be slippery. Remove sources of ignition. Pay attention to the risk of combustion by fire or other sources of ignition.

**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:** Store at room temperature in the original container. Keep container closed.

8. Exposure controls/personal protection
Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering Controls

Provide eyewash station and safety shower. Local exhaust is recommended. Observe good industrial hygiene practices.

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: liquid
Color: Colorless
Odor: Faint
Odor threshold: No data available.
PH: No data available.
Melting point/freezing point: < -50 °C
Initial boiling point and boiling range: > 150 °C (1,013 hPa)
Flash Point: 207 °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.
Vapor pressure: < 1.33 hPa (20 °C) estimated
Vapor density: Heavier than air
Density: 0.9880 g/cm³ (25 °C)
Relative density: ca. 0.9880 (25 °C)
Solubility(ies)
  - Solubility in water: Insoluble
  - Solubility (other): No data available.
Partition coefficient (n-octanol/water) Log Pow: No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: Material is stable under normal conditions.
SADT: No data available.
Viscosity, dynamic: No data available.
Viscosity, kinematic: No data available.
VOC: 0 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): > 64,000 mg/kg

Dermal
Product: LD 50 (Rabbit): > 20,000 mg/kg

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

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: (Rabbit): No skin irritation Undiluted

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

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.

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

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: 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
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.

BOD/COD Ratio
Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)
Product: No data available.

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

Mobility in Soil:
No data available.

Known or predicted distribution to environmental compartments
Silica Filled
Polydimethylsiloxane
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: Dispose of as unused product.

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>Silica Filled</td>
<td>No OSHA Hazards</td>
</tr>
<tr>
<td>Polydimethylsiloxane</td>
<td></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)

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 302 Extremely Hazardous Substance</td>
<td>None present or</td>
</tr>
<tr>
<td></td>
<td>none present in</td>
</tr>
<tr>
<td></td>
<td>regulated</td>
</tr>
<tr>
<td></td>
<td>quantities.</td>
</tr>
<tr>
<td>SARA 304 Emergency Release Notification</td>
<td>None present or</td>
</tr>
<tr>
<td></td>
<td>none present in</td>
</tr>
<tr>
<td></td>
<td>regulated</td>
</tr>
<tr>
<td></td>
<td>quantities.</td>
</tr>
<tr>
<td>SARA 311/312 Hazardous Chemical</td>
<td>None present or</td>
</tr>
<tr>
<td></td>
<td>none present in</td>
</tr>
<tr>
<td></td>
<td>regulated</td>
</tr>
<tr>
<td></td>
<td>quantities.</td>
</tr>
<tr>
<td>SARA 313 (TRI Reporting)</td>
<td>None present or</td>
</tr>
<tr>
<td></td>
<td>none present in</td>
</tr>
<tr>
<td></td>
<td>regulated</td>
</tr>
<tr>
<td></td>
<td>quantities.</td>
</tr>
</tbody>
</table>

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>Inventory Status</th>
<th>Status</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia AICS:</td>
<td>y (positive listing)</td>
<td>Remarks: None.</td>
</tr>
<tr>
<td>EU EINECS List:</td>
<td>y (positive listing)</td>
<td>Remarks: None.</td>
</tr>
<tr>
<td>Japan (ENCS) List:</td>
<td>y (positive listing)</td>
<td>Remarks: None.</td>
</tr>
<tr>
<td>China Inventory of Existing Chemical Substances:</td>
<td>y (positive listing)</td>
<td>Remarks: None.</td>
</tr>
<tr>
<td>Korea Existing Chemicals Inv. (KECl):</td>
<td>y (positive listing)</td>
<td>Remarks: None.</td>
</tr>
<tr>
<td>Canada DSL Inventory List:</td>
<td>y (positive listing)</td>
<td>Remarks: None.</td>
</tr>
<tr>
<td>Canada NDSL Inventory:</td>
<td>n (Negative listing)</td>
<td>Remarks: None.</td>
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<tr>
<td>New Zealand Inventory of Chemicals:</td>
<td>y (positive listing)</td>
<td>Remarks: None.</td>
</tr>
<tr>
<td>Philippines PICCS:</td>
<td>y (positive listing)</td>
<td>Remarks: None.</td>
</tr>
<tr>
<td>US TSCA Inventory:</td>
<td>y (positive listing)</td>
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<tr>
<td>New Zealand Inventory of Chemicals:</td>
<td>y (positive listing)</td>
<td>Remarks: None.</td>
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<tr>
<td>Taiwan. Taiwan inventory (CSNN):</td>
<td>y (positive listing)</td>
<td>Remarks: None.</td>
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</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>0</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Physical</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: 06/29/2016
Revision Date: No data available.
Version #: 1.9

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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