1. PRODUCT AND COMPANY IDENTIFICATION

Dow Corning Corporation
South Saginaw Road
Midland, Michigan 48686

24 Hour Emergency Telephone:  (989) 496-5900
Customer Service:  (989) 496-6000
Product Disposal Information: (989) 496-6315
CHEMTREC: (800) 424-9300

MSDS No.: 02896346

Generic Description:  Silicone resin solution.
Physical Form:    Liquid
Color:          Colorless
Odor:          Solvent odor.

NFPA Profile: Health 1 Flammability 3 Instability/Reactivity 1

Note: NFPA = National Fire Protection Association

2. OSHA HAZARDOUS COMPONENTS

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<th>Wt %</th>
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<td>108-88-3</td>
<td>1.0 - 5.0</td>
<td>Toluene</td>
</tr>
</tbody>
</table>

The above components are hazardous as defined in 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

Potential Health Effects

Acute Effects

Eye:                    Direct contact may cause mild irritation.
Skin:                   No significant irritation expected from a single short-term exposure.
Inhalation:             Irritates respiratory passages very slightly. Vapor overexposure may cause drowsiness.
Oral:                   Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects
**FOX(R) -25 FLOWABLE OXIDE**

**Skin:** Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis. Repeated or prolonged exposure may cause irritation.

**Inhalation:** Overexposure by inhalation may injure the following organ(s): Lungs. Liver. Kidneys. Nervous system.

**Oral:** Repeated ingestion or swallowing large amounts may injure internally.

**Signs and Symptoms of Overexposure**

No known applicable information.

**Medical Conditions Aggravated by Exposure**

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

### 4. FIRST AID MEASURES

**Eye:** Immediately flush with water for 15 minutes.

**Skin:** Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

**Inhalation:** Remove to fresh air. Get medical attention if ill effects persist.

**Oral:** Get medical attention.

**Comments:** Treat according to person's condition and specifics of exposure.

### 5. FIRE FIGHTING MEASURES

**Flash Point:** 26.6 °F / -3 °C (Pensky-Martens Closed Cup)

**Autoignition Temperature:** Not determined.

**Flammability Limits in Air:** Not determined.

**Extinguishing Media:** On large fires use medium expansion (>30:1) AFFF alcohol compatible foam or water spray. On small fires use medium expansion (>30:1) AFFF alcohol compatible foam, CO2 or water spray. Water can be used to cool fire exposed containers.

**Fire Fighting Measures:** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Unusual Fire Hazards: Vapors are heavier than air and may travel to a source of ignition and flash back. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Fire burns more vigorously than would be expected.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Hydrogen. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up: Remove possible ignition sources. Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Recovered material should be stored in a vented container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills. Call (989) 496-5900, if additional information is required.

7. HANDLING AND STORAGE

Use with adequate ventilation. Avoid eye contact. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally.

Product evolves minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage. Do not store in glass containers which may shatter due to pressure build up. Clogged container vents may increase pressure build up. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame. Keep container closed and store away from water or moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Number</td>
</tr>
</tbody>
</table>
FOX(R) -25 FLOWABLE OXIDE

107-51-7 Octamethyltrisiloxane  Dow Corning guide: TWA 200 ppm.
107-46-0 Hexamethyldisiloxane (HMDS)  Dow Corning guide: TWA 200 ppm.
108-88-3 Toluene  OSHA PEL (final rule): 8-Hour TWA 200 ppm, Ceiling 300 ppm, 10 minutes maximum duration 500 ppm. ACGIH TLV-skin: TWA 50 ppm.

Engineering Controls
Local Ventilation: Recommended.
General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection - safety glasses as a minimum.
Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Suitable Gloves: Silver Shield(R). 4H(R).
Inhalation:
Suitable Respirator:

Personal Protective Equipment for Spills

Eyes: Use full face respirator.
Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Inhalation/Suitable Respirator:
Precautionary Measures: Avoid eye contact. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Use reasonable care.
Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid
Color: Colorless
Odor: Solvent odor.
Specific Gravity @ 25°C: 0.82
# FOX(R) -25 FLOWABLE OXIDE

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>1.5 mm²/s</td>
</tr>
<tr>
<td>Freezing/Melting Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt; 65 °C</td>
</tr>
<tr>
<td>Vapor Pressure @ 25°C</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
</tr>
<tr>
<td>Volatile Content</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

**Conditions to Avoid:** None.

**Materials to Avoid:** Oxidizing material can cause a reaction. Water, alcohols, acidic or basic materials, and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in air.

## 11. TOXICOLOGICAL INFORMATION

### Component Toxicology Information

Toxicology studies with laboratory animals and occupational evaluations with humans have found limited evidence of birth defects, low birth weights and delayed growth in offspring resulting from repeated exposures to toluene during pregnancy.

A 2-year combined chronic/carcinogenicity study was conducted on HMDS in Fischer 344 rats. A dose related increase in Leydig cell tumors was observed at the end of one year. Nearly 100% of the male rats in the control and treated groups had Leydig cell tumors at the end of 2 years, which is an expected observation in this strain of rat. The early onset of Leydig cell tumors in this study may have little or no relevance to humans. Also at the end of two years there was a dose related increase in kidney tumors in male rats at the two highest exposure concentrations (1,600 and 5,000 ppm). Additional work indicates that the kidney tumors in the male rats are mediated through a-2u-globulin. This is considered a rat-specific mode of action with no relevance to humans. The lack of relevance of these findings from this study to humans supports the use of HMDS in its intended applications.

### Special Hazard Information on Components

#### Reproductive Effects

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Wt %</th>
<th>Component Name</th>
<th>Evidence of reproductive effects in</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>1.0 - 5.0</td>
<td>Toluene</td>
<td></td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

**Environmental Fate and Distribution**

Complete information is not yet available.

**Environmental Effects**

Complete information is not yet available.

**Fate and Effects in Waste Water Treatment Plants**

Complete information is not yet available.

<table>
<thead>
<tr>
<th>Hazard Parameters (LC50 or EC50)</th>
<th>High</th>
<th>Medium</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Aquatic Toxicity (mg/L)</td>
<td>&lt;=1</td>
<td>&gt;1 and &lt;=100</td>
<td>&gt;100</td>
</tr>
<tr>
<td>Acute Terrestrial Toxicity</td>
<td>&lt;=100</td>
<td>&gt;100 and &lt;= 2000</td>
<td>&gt;2000</td>
</tr>
</tbody>
</table>

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

**RCRA Hazard Class (40 CFR 261)**

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes

<table>
<thead>
<tr>
<th>Characteristic Waste:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ignitable:</td>
<td>D001</td>
</tr>
<tr>
<td>Reactive:</td>
<td>D003</td>
</tr>
</tbody>
</table>

State or local laws may impose additional regulatory requirements regarding disposal.

Call (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

**DOT Road Shipment Information (49 CFR 172.101)**

<table>
<thead>
<tr>
<th>Proper Shipping Name:</th>
<th>FLAMMABLE LIQUID, N.O.S.</th>
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<tbody>
<tr>
<td>Hazard Technical Name:</td>
<td>HEXAMETHYLDISILOXANE/ OCTAMETHYLTRISILOXANE</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>3</td>
</tr>
</tbody>
</table>
## FOX(R) -25 FLOWABLE OXIDE

| UN/NA Number: | UN1993 |
| Packing Group: | II |
| Hazard Label(s): | FLAMMABLE LIQUID LABEL |

### Ocean Shipment (IMDG)
- **Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S.
- **Hazard Technical Name:** HEXAMETHYLDISILOXANE/ OCTAMETHYLTRISILOXANE
- **Hazard Class:** 3
- **UN Number:** 1993
- **Packing Group:** II
- **Hazard Label(s):** FLAMMABLE LIQUID
- **Marine Pollutant:** Not Applicable

### Air Shipment (IATA)
- **Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S.
- **Hazard Technical Name:** HEXAMETHYLDISILOXANE/ OCTAMETHYLTRISILOXANE
- **Hazard Class:** 3
- **UN Number:** 1993
- **Packing Group:** II
- **Hazard Label(s):** FLAMMABLE LIQUID
- **Remarks:** VENTED PACKAGES ARE FORBIDDEN FOR AIR TRANSPORT.

### 15. REGULATORY INFORMATION


**TSCA Status:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**EPA SARA Title III Chemical Listings**

**Section 302 Extremely Hazardous Substances (40 CFR 355):** None.
Section 304 CERCLA Hazardous Substances (40 CFR 302):
None.

Section 311/312 Hazard Class (40 CFR 370):
  Acute: Yes
  Chronic: Yes
  Fire: Yes
  Pressure: No
  Reactive: Yes

Section 313 Toxic Chemicals (40 CFR 372):

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Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

Massachusetts

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16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby 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.

(R) indicates Registered Trademark