1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

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.: 02384671  
Revision Date: 2002/10/14

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

NFPA Profile: Health 2 Flammability 3 Instability/Reactivity 1

Note: NFPA = National Fire Protection Association

2. OSHA HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
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<th>Wt %</th>
<th>Component Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-10-1</td>
<td>&gt; 60.0</td>
<td>Methyl isobutyl ketone</td>
</tr>
<tr>
<td>137125-44-1</td>
<td>15.0 - 40.0</td>
<td>Hydrogen silsesquioxane</td>
</tr>
<tr>
<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. EFFECTS OF OVEREXPOSURE

Acute Effects

Eye: Direct contact may cause moderate irritation. Vapor may cause eye irritation.

Skin: May cause mild irritation.

Inhalation: Irritates respiratory passages very slightly. Overexposure by inhalation may cause drowsiness, dizziness, confusion or loss of coordination.

Oral: Aspiration of liquid while vomiting may injure lungs seriously.

Prolonged/Repeated Exposure Effects

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

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

Oral: Repeated ingestion or swallowing large amounts may injure internally.
FOX(R) -17 FLOWABLE OXIDE

4. FIRST AID MEASURES

Eye: Immediately flush with water for 15 minutes. Get medical attention.

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 immediate medical attention. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

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

5. FIRE FIGHTING MEASURES

Flash Point: 62.6 °F / 17 °C (Closed Cup)

Autoignition Temperature: Not determined.

Flammability Limits in Air: Not determined.

Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical 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.

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. 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. 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 some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent 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 Dow Corning Corporation, (989) 496-5900, if additional information is required.

7. HANDLING AND STORAGE

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

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. 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. Keep container closed and store away from water or moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Component Name</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-10-1</td>
<td>Methyl isobutyl ketone</td>
<td>OSHA PEL (final rule): TWA 100 ppm and ACGIH TLV: TWA 50 ppm, STEL 75 ppm.</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>OSHA PEL (final rule): 8-Hour TWA 200 ppm, Ceiling 300 ppm, 10 minutes maximum duration 500 ppm. ACGIH TLV-skin: TWA 50 ppm.</td>
</tr>
</tbody>
</table>

Engineering Controls

Local Ventilation: Recommended.
General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling
FOX(R) -17 FLOWABLE OXIDE

Eyes: Use chemical worker's goggles.

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: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

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: Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Precautionary Measures: Avoid eye exposure. 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: 0.90
Viscosity: 0.6 cSt
Freezing/Melting Point: Not determined.
Boiling Point: > 65 °C
Vapor Pressure @ 25°C: Not determined.
Vapor Density: Not determined.
Solubility in Water: Not determined.
pH: Not determined.
FOX(R) -17 FLOWABLE OXIDE

Volatile Content: Not determined.

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

Special Hazard Information on Components

Reproductive Effects

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

Ecotoxicity Classification Criteria

<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

Characteristic Waste:
- Ignitable: D001
- Reactive: D003

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

Call Dow Corning Corporate Environmental Management, (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.
Hazard Technical Name: METHYL ISOBUTYL KETONE/TOLUENE
Hazard Class: 3
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: METHYL ISOBUTYL KETONE/TOLUENE
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: METHYL ISOBUTYL KETONE/TOLUENE
FOX(R) -17 FLOWABLE OXIDE

Hazard Class: 3
UN Number: 1993
Packing Group: II
Hazard Label(s): FLAMMABLE LIQUID
Remarks: VENTED PACKAGES ARE FORBIDDEN FOR AIR TRANSPORT.

Call Dow Corning Transportation, (989) 496-8577, if additional information is required.

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:

None.

Section 304 CERCLA Hazardous Substances:

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<td>74.0</td>
<td>Methyl isobutyl ketone</td>
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<tr>
<td>108-88-3</td>
<td>2.0</td>
<td>Toluene</td>
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</table>

Section 312 Hazard Class:

- Acute: Yes
- Chronic: Yes
- Fire: Yes
- Pressure: No
- Reactive: Yes

Section 313 Toxic Chemicals:

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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.

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<td>1.0 - 5.0</td>
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<td>Developmental toxin.</td>
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**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.

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