

*Distributed By:*  
**Invensys Foxboro**  
**Foxboro, MA 02035 U.S.A.**  
**1-866-746-6477**

**MSDS 137**  
**Foxboro Rev Date: April 2006**  
**Part Number X0180HB (Kit-AG100WH)**  
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**DOW CORNING**

**DOW CORNING CORPORATION**  
**Material Safety Data Sheet**

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Version: 2.0

Revision Date: 2005/01/25

**DOW CORNING(R) 838 SILICONE ADHESIVE/SEALANT**

**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.: 02023199

Revision Date: 2005/01/25

Generic Description: Silicone elastomer

Physical Form: Paste

Color: White

Odor: Alcoholic odor

NFPA Profile: Health 1 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

**2. OSHA HAZARDOUS COMPONENTS**

| <u>CAS Number</u> | <u>Wt %</u> | <u>Component Name</u>                         |
|-------------------|-------------|-----------------------------------------------|
| PMN871176         | > 60.0      | Dimethyl siloxane, trimethoxysilyl-terminated |
| 1185-55-3         | 5.0 - 10.0  | Methyltrimethoxysilane                        |
| 27858-32-8        | 1.0 - 5.0   | Diisopropoxy di(ethoxyacetoacetyl) titanate   |

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: Vapor may irritate nose and throat. Vapor overexposure may cause drowsiness.

Oral: Overexposure by ingestion may cause effects similar to those listed under repeated exposure.

Prolonged/Repeated Exposure Effects

Skin: Repeated or prolonged exposure may cause irritation.

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Inhalation: Product generates methyl alcohol which may cause blindness and damage to nervous system.

Oral: Product generates methyl alcohol which may cause blindness and possibly death if swallowed.

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: No first aid should be needed.

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

Oral: Get medical attention.

Comments: Treat same as methyl alcohol poisoning.

**5. FIRE FIGHTING MEASURES**

Flash Point: Not applicable.

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 (CO<sub>2</sub>), 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. Use water spray to keep fire exposed containers cool. Determine the need to evacuate or isolate the area according to your local emergency plan.

Unusual Fire Hazards: None.

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.

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Formaldehyde. Sulfur oxides. Metal oxides.

**6. ACCIDENTAL RELEASE MEASURES**

Containment/Clean up: Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. 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. 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 (989) 496-5900, if additional information is required.

**7. HANDLING AND STORAGE**

Use with adequate ventilation. Product evolves flammable methyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within Section 8 guidelines or use air-supplied or self-contained breathing apparatus. Product evolves isopropyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within guidelines or use respiratory protection. Avoid eye contact. Do not breathe vapor. Keep container closed. Do not take internally.

Keep container closed and store away from water or moisture.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

| <u>CAS Number</u> | <u>Component Name</u>                         | <u>Exposure Limits</u>                                           |
|-------------------|-----------------------------------------------|------------------------------------------------------------------|
| PMN871176         | Dimethyl siloxane, trimethoxysilyl-terminated | See methyl alcohol comments.                                     |
| 1185-55-3         | Methyltrimethoxysilane                        | Dow Corning guide: TWA 50 ppm. Also see methyl alcohol comments. |
| 27858-32-8        | Diisopropoxy di(ethoxyacetoacetyl) titanate   | See isopropyl alcohol comments.                                  |

Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm. Isopropyl alcohol is formed on contact with water or humid air. Provide adequate ventilation to control exposures to within exposure guidelines of OSHA PEL (final rule): TWA 400 ppm, 980 mg/m<sup>3</sup> and ACGIH TLV: TWA 200 ppm, STEL 400 ppm.

**Engineering Controls**

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Local Ventilation: Recommended.  
General Ventilation: Recommended.

**Personal Protective Equipment for Routine Handling**

Eyes: Use proper protection - safety glasses as a minimum.

Skin: Washing at mealtime and end of shift is adequate.

Suitable Gloves: No special protection needed.

Inhalation: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH 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 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: Washing at mealtime and end of shift is adequate.

Inhalation/Suitable Respirator: Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA 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 contact. Do not breathe vapor. Keep container closed. Do not take internally. Use reasonable care.

Comments: Product evolves flammable methyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within Section 8 guidelines or use air-supplied or self-contained breathing apparatus. Product evolves isopropyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within guidelines or use respiratory protection.

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: Paste  
Color: White

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**DOW CORNING(R) 838 SILICONE ADHESIVE/SEALANT**

Odor: Alcoholic odor  
Specific Gravity @ 25°C: 1.03  
Viscosity: Not determined.  
Freezing/Melting Point: Not determined.  
Boiling Point: Not determined.  
Vapor Pressure @ 25°C: Not determined.  
Vapor Density: Not determined.  
Solubility in Water: Not determined.  
pH: Not determined.  
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: Water, moisture, or humid air can cause hazardous vapours to form as described in Section 8 . Oxidizing material can cause a reaction.

**11. TOXICOLOGICAL INFORMATION**

**Special Hazard Information on Components**

No known applicable information.

**12. ECOLOGICAL INFORMATION**

**Environmental Fate and Distribution**

Air: This product is a solid consisting of a high molecular weight silicone polymer and other solid materials. Unless milled to produce a dust or particles, it is unlikely to give rise to atmospheric contamination.

Water: This product is a solid which is completely insoluble in water. As the specific gravity is >1, it will sink to the bottom of the water course.

Soil: This product will enter the terrestrial environment if, as a component of municipal or industrial solid waste the product is landfilled. It is unlikely that further significant transformation of the product will occur.

Degradation: High molecular weight polymer which is amenable to recycling. The product is not biodegradable. The product is removed >80% during the sewage treatment process.

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**Environmental Effects**

Toxicity to Water Organisms: This product has low water solubility and should not present a risk to aquatic organisms.

Toxicity to Soil Organisms: This product is a solid and does not contain significant concentrations of water soluble constituents that may be leached from the product. It is therefore not likely to present a danger to terrestrial organisms.

Bioaccumulation: This product is a solid which is not soluble in water and if ingested will not be absorbed.

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

This product is a solid rubber type material which is unlikely to have any adverse effect on bacteria.

**Ecotoxicity Classification Criteria**

| Hazard Parameters (LC50 or EC50) | High  | Medium           | Low   |
|----------------------------------|-------|------------------|-------|
| Acute Aquatic Toxicity (mg/L)    | <=1   | >1 and <=100     | >100  |
| Acute Terrestrial Toxicity       | <=100 | >100 and <= 2000 | >2000 |

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? No

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)**

Not subject to DOT.

**Ocean Shipment (IMDG)**

Not subject to IMDG code.

**Air Shipment (IATA)**

Not subject to IATA regulations.

**15. REGULATORY INFORMATION**

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Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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: No  
Fire: No  
Pressure: No  
Reactive: No

**Section 313 Toxic Chemicals (40 CFR 372):**

None present or none present in regulated quantities.

**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**

| <u>CAS Number</u> | <u>Wt %</u> | <u>Component Name</u> |
|-------------------|-------------|-----------------------|
| 7631-86-9         | 7.0 - 13.0  | Silica, amorphous     |

**New Jersey**

| <u>CAS Number</u> | <u>Wt %</u> | <u>Component Name</u>                         |
|-------------------|-------------|-----------------------------------------------|
| PMN871176         | > 60.0      | Dimethyl siloxane, trimethoxysilyl-terminated |
| 68083-19-2        | 7.0 - 13.0  | Dimethyl siloxane, dimethylvinyl-terminated   |

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|            |            |                                             |
|------------|------------|---------------------------------------------|
| 7631-86-9  | 7.0 - 13.0 | Silica, amorphous                           |
| 1185-55-3  | 5.0 - 10.0 | Methyltrimethoxysilane                      |
| 27858-32-8 | 1.0 - 5.0  | Diisopropoxy di(ethoxyacetoacetyl) titanate |

**Pennsylvania**

| <u>CAS Number</u> | <u>Wt %</u> | <u>Component Name</u>                         |
|-------------------|-------------|-----------------------------------------------|
| PMN871176         | > 60.0      | Dimethyl siloxane, trimethoxysilyl-terminated |
| 68083-19-2        | 7.0 - 13.0  | Dimethyl siloxane, dimethylvinyl-terminated   |
| 7631-86-9         | 7.0 - 13.0  | Silica, amorphous                             |
| 1185-55-3         | 5.0 - 10.0  | Methyltrimethoxysilane                        |

**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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