

Majestic Mountain Sage, Inc.

MATERIAL SAFETY DATA SHEET

Identity: Dimethicone

SECTION 1: Identification

Company Name: Majestic Mountain Sage, Inc.
Address: 918 West 700 North Ste 104, Logan UT 84321
Telephone: 435.755.0863
Date Prepared: December 9, 2002

Generic Description: Silicone

Physical Form: Liquid

Color: Colorless

Odor: Characteristic Odor

NFPA Profile: Health 0 Flammability 1 Instability/Reactivity 0

SECTION 2: Hazardous Ingredients/Identity Information

| Ingredient | CAS Number: | % by weight |
|------------|-------------|-------------|
|------------|-------------|-------------|

None present. This is not a hazardous material as defined in the OSHA Hazard Communication Standard.

SECTION 3: Effects of Overexposure

Acute Effects

Eye: Direct contact may cause temporary redness and discomfort.

Skin: No significant irritation expected from a single short-term exposure.

Inhalation: No significant effects expected from a single short-term exposure.

Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin: No known applicable information.

Inhalation: No known applicable information.

Oral: No known applicable information.

Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information.

SECTION 4: First Aid Measures

Eye: Immediately flush with water
Skin: No first aid should be needed.
Inhalation: No first aid should be needed
Oral: No first aid should be needed
Comments: Treat symptomatically.

SECTION 5: Fire Fighting Measures

Flash point: >214°F / > 101.1°C (Closed Cup)
Autoignition Temperature: Not determined
Flammability Limits in Air: Not determined
Extinguishing Media: Carbon dioxide (CO₂). Water spray. Dry chemical. Foam. 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.
Unusual Fire Hazards: None
Hazardous Decomposition or By 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. Formaldehyde.

SECTION 6: Accidental Release Measures

Containment/Clean Up: Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements. Clean up remaining materials from spill suitable absorbant. 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. 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. Observe all personal protection equipment recommendations described in Sections 5 and 8. 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 and applicable.

SECTION 7: Handling and Storage

Use with adequate ventilation. Avoid eye contact.
Use reasonable care and store away from oxidizing materials.

SECTION 8: Exposure Controls / Personal Protection

Component Exposure Limits

There are no components with workplace exposure limits.

Engineering Controls

Local Ventilation: None should be needed.

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: No respiratory protection should be needed

Suitable Respirator: None should be needed

Personal Protective Equipment for Spills

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

Skin: Washing at mealtime and end of shift is adequate

Inhalation/Suitable Respirator: No respiratory protection should be needed

Precautionary Measures: Avoid eye contact. Use reasonable care.

Comments: When heated to temperatures above 150°C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

Note: These precautions are for room temperature handling. Use at elevated temperatures or aerosol/spray applications may require added precautions.

SECTION 9: Physical and Chemical Properties

Physical form: Liquid

Color: Colorless

Odor: Characteristic odor

Specific Gravity @ 25°C: 0.97

Viscosity: 1000 cSt

Freezing 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

Volatile Content: Not determined

SECTION 10: Stability and Reactivity

Chemical Stability: Stable

Hazardous Polymerization: Hazardous polymerization will not occur

MSDS, Dimethicone, December 9, 2002

Conditions to Avoid: None

Materials to Avoid: Oxidizing material can cause a reaction

SECTION 11: Toxicological Information

Component Toxicology Information

No known applicable information.

Special Hazard Information on Components

No known applicable information

SECTION 12: Ecological Information

Environmental Fate and Distribution

Air: This product is a high molecular weight liquid polymer which has very low vapor pressure (<1 mm Hg). As a result it is unlikely to become an atmospheric contaminant unless generated as an aerosol.

Water: This product has a very low water solubility (< 100 ppb). As it has a specific gravity of <1, if discharged to water, it will initially form a surface film. As the product is non-volatile and has a high binding affinity for particulate matter, it will adsorb to particulates and sediment out.

Soil: If discharged to surface water, this product will bind to sediment. If discharged in effluent to a waste water treatment plant, the product is removed from the aqueous phase by binding to the sewage sludge. If the sewage sludge is subsequently spread on soil, the silicone product is expected to degrade.

Degradation: This product, polydimethylsiloxane, degrades in soil abiotically to form smaller molecules. These in turn are either biodegraded in soil or volatilized into the air where they are broken down in the presence of sunlight. Under appropriate conditions, the ultimate degradation products are inorganic silica, carbon dioxide and water vapor. Due to the very low water solubility of this product, standard OECD protocols for ready and inherent biodegradability are not suitable for measuring the biodegradability of this product. The product is removed >80% during the sewage treatment process.

Environmental Effects

Toxicity to Water Organisms: Based on analogy to similar materials this product is expected to exhibit low toxicity to aquatic organisms.

Toxicity to Soil Organisms: Experiments show that when sewage sludge containing polydimethylsiloxane is added to soil, it has no effect on soil micro-organisms, earthworms, or subsequent crops grown in the soil.

Bioaccumulation: This product is a liquid and is a high molecular weight polymer. Due to its physical size it is unable to pass through, or be absorbed by biological membranes. This has been confirmed by testing or analogy with similar products.

Fate and Effects in Waste Water Treatment Plants

This product, or similar products, has been shown to be non-toxic to sewage sludge bacteria.

Ecotoxicity Classification Criteria

| Hazard Parameters (LC50 or EC50) | High | Medium | Low |
|----------------------------------|------|--------------|-------|
| Acute Aquatic Toxicity (mg/L) | ≤1 | >1 & <100 | >100 |
| Acute Terrestrial Toxicity | ≤100 | >100 & <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.

SECTION 13: Disposal Considerations

RCRA Hazard Class (40 CFR 261)

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

No

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

SECTION 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.

SECTION 15: Regulatory Information

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: None.

Section 304 CERCLA Hazardous Substances: None.

Section 312 Hazard Class: Acute: No
Chronic: No
Fire: No
Pressure: No
Reactive: No

Section 313 Toxic Chemicals: None present or non present in regulated quantities.

Supplemental State Compliance Information

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

None known.

Massachusetts No ingredient regulated by MA Right-To-Know Law present.

| | | | |
|--------------|------------|------|----------------------|
| New Jersey | CAS Number | Wt% | Component Name |
| | 63148-62-9 | >60% | polydimethylsiloxane |
| Pennsylvania | CAS Number | Wt% | Component Name |
| | 63148-62-9 | >60% | polydimethylsiloxane |

SECTION 16: Other Information

NOTE: These data are offered in good faith as typical values and not as product specifications. The information in this MSDS is compiled from sources considered to be accurate to the best of our knowledge and applies to activities within the scope of the intended use of the product. No warranty, either expressed or implied, is hereby made. User should satisfy themselves that they have all current data relevant to their particular use.