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## MATERIAL SAFETY DATA SHEET (MSDS)

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Version 1.1

### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

**Generic Description-** Silicone Emulsion  
**Physical Form-** Liquid  
**Color-** Green  
**Odor-** Mild Lemon

**\*NFPA Profile-** Health – 2 Flammability – 1 Instability/Reactivity – 0  
\*National Fire Protection Association

### 2. HAZARDS IDENTIFICATION – POTENTIAL HEALTH EFFECTS

#### Acute Effects:

**Eye –** Direct contact may cause moderate irritation.  
**Skin -** Direct contact may cause moderate irritation.  
**Inhalation –** May irritate respiratory passages very slightly.  
**Oral –** Low Ingestion hazard with 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.

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. Refer to section 11 for the detailed toxicology information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**CAS Number –** Trade Secret  
**Wt. % -** 3.0 to 7.0  
**Component Name –** Polyglycol

The above components are hazardous as defined in 29 CFR 1910.1200

### 4. FIRST AID MEASURES

**Eye –** Immediately flush with water for 15 minutes. Seek medical attention.  
**Skin –** No first aid should be needed.  
**Inhalation -** No first aid should be needed.  
**Oral -** No first aid should be needed.

Notes to Physician: Treat according to person's condition and specifics of exposure.

### 5. FIRE FIGHTING MEASURES

**Flash Point -** >212 Degrees F / >100 Degrees C (Closed Cup)  
**Auto Ignition Temp -** 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. 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-** None

### 6. ACCIDENTAL RELEASE MEASURES

**Containment/Clean up -** Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment (PPE) 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. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials, even in small quantities, may represent 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.

### 7. HANDLING AND STORAGE

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

**Component Exposure Limits** – There are no components with workplace exposure limits.

**Engineering Controls** - Local ventilation should not be needed.  
General ventilation is 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** - Handle in accordance with good industrial hygiene and safety practices.  
**Inhalation** - No respiratory protection should be needed.  
**Respirator** - None should be needed.

**Personal Protective Equipment for Spills:**

**Eyes** – Use proper protection, safety glasses as a minimum.  
**Skin** - Washing at mealtime and end of shift is adequate.  
**Suitable Gloves** - Handle in accordance with good industrial hygiene and safety practices.  
**Inhalation** - No respiratory protection should be needed.  
**Respirator** - None should be needed.  
**Precautionary Measures** – Avoid eye contact. Use reasonable care.

**Comments** - When heated to temperatures above 300 degrees F, 150 degrees C, in the presence of air the product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate eyes, nose, and throat. Safe handling conditions may be maintained by keeping vapor conditions within the OSHA permissible exposure limit for formaldehyde.

**Note** - These precautions are for room temperature handling. Use at elevated temperature or aerosol spray applications may require added precautions. For further information regarding aerosol inhalation toxicity refer to the guidance document regarding the use of silicone based materials in aerosol applications that has been developed by the silicone industry ( [www.SEHSC.com](http://www.SEHSC.com)) or contact the Dow Corning customer service group.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical Form</b> -	Liquid
<b>Color</b> -	Green
<b>Odor</b> -	Mild Lemon
<b>Specific Gravity @ 25 Degrees C</b> -	1
<b>Viscosity</b> -	1000 mm <sup>2</sup> /s
<b>Freezing /Melting Point</b> -	Not Determined
<b>Boiling Point</b> -	> 65 Degrees C
<b>Vapor Pressure @ 25 Degrees C</b> -	Not Determined
<b>Vapor Density</b> -	Not Determined
<b>Solubility in Water</b> -	Not Determined
<b>pH</b> -	7
<b>Volatile Content</b> -	36%
<b>Flash Point</b> -	>212 Degrees F, 100 Degrees C (Closed Cup)
<b>Auto Ignition Temperature</b> -	Not Determined
<b>Flammability Limits in Air</b> -	Not Determined

<b>Chemical Stability -</b>	Stable
<b>Hazardous Polymerization -</b>	Hazardous polymerization will not occur.
<b>Conditions to Avoid -</b>	None
<b>Materials to Avoid -</b>	Oxidizing material can cause a reaction.

**Hazardous Decomposition Products –**

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products:

Carbon Oxides and traces of incompletely burned carbon compounds, Silicon Dioxide, Formaldehyde, Sulfur Oxides, Metal Oxides, and Fluorine Compounds.

## 11. TOXICOLOGICAL INFORMATION

**Special Hazard Information on Components –** No known applicable information.

## 12. ECOLOGICAL INFORMATION

<b>Environmental Fate and Distribution –</b>	Information is not available.
<b>Environmental Effects -</b>	Information is not available.
<b>Fate and Effects in Waste Water Treatment Plants -</b>	Information is not available.

**Eco-toxicity Classification Criteria:**

<b>Hazard Parameters (LC50 or EC50)</b>	<u>High</u>	<u>Medium</u>	<u>Low</u>
<b>Acute Aquatic Toxicity (mg/L)</b>	<=1	>1 and <=100	>100
<b>Acute Terrestrial Toxicity</b>	<=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 eco-toxicity of this product when eco-toxicity data is listed above. 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) -** NOT classified as hazardous waste.  
State or local laws may impose regulatory requirements regarding disposal.

## 14. TRANSPORT INFORMATION

<b>DOT Road Shipment Information (49 CFR 172.101) –</b>	Not subject to DOT.
<b>OCEAN SHIPMENT (IMDG) -</b>	Not subject to IMDG code.
<b>AIR SHIPMENT (IATA) -</b>	Not subject to IATA regulations.

## 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:**

<b>Section 302 Extremely Hazardous Substances (40 CFR 355) -</b>	None
<b>Section 304 CERCLA Hazardous Substances (40 CFR 302) -</b>	None

**Section 311/312 Hazard Class (40 CFR 370) -**

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

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

None present or none present in regulated quantities.

**Note** – Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed reporting threshold.

**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:

**CAS Number -** 75-07-0  
**Wt % -** 0.1  
**Component Name -** Acetaldehyde – Carcinogenic

**Massachusetts:**

**CAS Number -** 75-07-0  
**Wt % -** 0.1  
**Component Name -** Acetaldehyde – Carcinogenic

**Pennsylvania:**

**CAS Number -** 63148-62-9  
**Wt % -** 40.0-70.0  
**Component Name -** Polydimethylsiloxane

**CAS Number -** 7732 -18-5  
**Wt % -** 30.0 - 60.0  
**Component Name -** Water

**CAS Number -** Trade Secret  
**Wt % -** 3.0 - 7.0  
**Component Name -** Polyglycol