

## Dimethicone Fluid


Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

Date: 08-17-2017

### 1 PRODUCT & COMPANY IDENTIFICATION

|                      |                                                 |                                    |                                                           |
|----------------------|-------------------------------------------------|------------------------------------|-----------------------------------------------------------|
| <b>Product Name:</b> | Dimethicone Fluid                               | <b>Distributor:</b>                | MakingCosmetics.com Inc.                                  |
| <b>Synonyms:</b>     | Polydimethylsiloxane                            | <b>Address:</b>                    | 10800 231 <sup>st</sup> Way NE<br>Redmond, WA 98053 (USA) |
| <b>INCI Name:</b>    | Dimethicone Fluid                               | <b>Phone / Fax:</b>                | 425-292-9502 / 425-292-9601                               |
| <b>CAS Number:</b>   | 63148-62-9                                      | <b>Web:</b>                        | www.makingcosmetics.com                                   |
| <b>Formula:</b>      | C <sub>6</sub> H <sub>18</sub> OSi <sub>2</sub> | <b>Emergency Telephone Number:</b> | 1-800-424-9300                                            |
| <b>Product Form:</b> | Liquid                                          | <b>(Chemtrec)</b>                  |                                                           |
| <b>Product Use:</b>  | Cosmetic use                                    |                                    |                                                           |

### 2 HAZARDS IDENTIFICATION

**GHS Classification:** Flammable Liq. 3  
**GHS Signal Word:** WARNING  
**GHS Hazard Pictograms:** 

**GHS Hazard Statements:** H226: Flammable liquid and vapor  
**GHS Precautionary Statements:** P271: Use only outdoors or in a well-ventilated area  
P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking  
P243: Take precautionary measures against static discharge  
P102: Keep out of reach of children  
P273: Avoid release to the environment

**Potential Health Hazards:** Eyes: May be irritant.  
Inhalation: Not expected to be irritant.  
Skin: Not expected to be irritant.  
Ingestion: May be irritant.

**NFPA Ratings (704):**

|                 |     |         |
|-----------------|-----|---------|
| Health          | 0   | Minimal |
| Flammability    | 0   | Minimal |
| Reactivity      | 0   | Minimal |
| Specific Hazard | n/a |         |

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Component</u> | <u>CAS No.</u> | <u>Weight %</u> | <u>Molecular Weight</u> |
|------------------|----------------|-----------------|-------------------------|
| Dimethicone      | 63148-62-9     | 100%            |                         |

### 4 FIRST AID MEASURES

**Eyes:** If irritation occurs, flush eye(s) with lukewarm gently flowing water for 5 minutes. Obtain medical attention.

**Inhalation:** If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.

**Skin:** No health effect expected. If irritation does occur flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

**Ingestion:** If irritation or discomfort occurs, obtain medical advice. Treat according to person's condition and specifics of exposure.

## 5 FIRE-FIGHTING MEASURES

|                                                                         |                                                                                                                                                                                             |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable (and unsuitable) extinguishing media:</b>                   | 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. |
| <b>Special protective equipment &amp; precautions for firefighters:</b> | Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.                                                                         |
| <b>Flash Points:</b>                                                    | Closed cup: >101.1 °C (214 °F)                                                                                                                                                              |
| <b>Specific hazards:</b>                                                | None                                                                                                                                                                                        |

## 6 ACCIDENTAL RELEASE MEASURES

|                                                                               |                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment &amp; emergency procedures:</b> | See section 8 for recommendations on the use of personal protective equipment.                                                                                                                                    |
| <b>Environmental precautions:</b>                                             | Not available                                                                                                                                                                                                     |
| <b>Methods and material for containment and cleaning up:</b>                  | Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations. |

## 7 HANDLING & STORAGE

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling:</b>                            | 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. Keep vapor concentrations within the OSHA permissible exposure limit for Formaldehyde. See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use. |
| <b>Conditions for safe storage, incl. any incompatibilities:</b> | Store in cool, dry well ventilated area. Keep away from heat and incompatible materials (see section 10 for incompatibilities).                                                                                                                                                                                                                                                                                                                                               |

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

| <u>Component</u> | <u>Exposure Limits</u> | <u>Basis</u> | <u>Entity</u> |
|------------------|------------------------|--------------|---------------|
| Dimethicone      | None needed            |              |               |

TWA: Time Weighted Average over 8 hours of work.  
 TLV: Threshold Limit Value over 8 hours of work.  
 REL: Recommended Exposure Limit  
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.  
 IDLH: Immediately Dangerous to Life or Health  
 WEEL: Workplace Environmental Exposure Levels  
 CEIL: Ceiling

### Personal Protection:

|                    |                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Eyes:</b>       | Use proper protection-safety glasses as a minimum.                                                             |
| <b>Inhalation:</b> | Not needed under normal conditions of use.                                                                     |
| <b>Body:</b>       | Washing at mealtime and end of shift is adequate.                                                              |
| <b>Other:</b>      | Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. |

When heated to temperatures above 150 °C (302 °F) 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. Keep vapor concentrations 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, please refer to the guidance document regarding the use of silicone.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

|                                    |                |                                     |                               |
|------------------------------------|----------------|-------------------------------------|-------------------------------|
| <b>Appearance, Physical State:</b> | Clear Liquid   | <b>Viscosity:</b>                   | 10 cSt                        |
| <b>Odor:</b>                       | Characteristic | <b>Vapor Density:</b>               | Not determined                |
| <b>Taste:</b>                      | Not available  | <b>Evaporation Rate:</b>            | Not available                 |
| <b>Color:</b>                      | Colorless      | <b>Flammability:</b>                | May be combustible            |
| <b>Molecular Weight:</b>           | 162.38 g/mol   | <b>Upper/lower Explosive Limit:</b> | Not determined                |
| <b>pH (1% sol. in water)</b>       | Not determined | <b>Flash Point:</b>                 | >101.1°C (214°F) (Closed Cup) |
| <b>Boiling Point:</b>              | >35°C          | <b>Specific Gravity @ 25°C:</b>     | 0.934                         |
| <b>Melting Point:</b>              | Not determined | <b>Solubility:</b>                  | Not determined                |

## 10 STABILITY AND REACTIVITY

|                                          |                                         |
|------------------------------------------|-----------------------------------------|
| <b>Reactivity:</b>                       | Product is stable                       |
| <b>Chemical Stability:</b>               | Product is stable                       |
| <b>Hazardous Polymerization:</b>         | Will not occur                          |
| <b>Conditions to Avoid:</b>              | None                                    |
| <b>Incompatible Materials:</b>           | Oxidizing material can cause a reaction |
| <b>Hazardous Decomposition Products:</b> | None                                    |

## 11 TOXICOLOGICAL INFORMATION

|                                        |               |
|----------------------------------------|---------------|
| <b>Acute Oral Toxicity:</b>            | Not available |
| <b>Skin:</b>                           | Not available |
| <b>Eyes:</b>                           | Not available |
| <b>Respiratory:</b>                    | Not available |
| <b>Ingestion:</b>                      | Not available |
| <b>Carcinogenicity:</b>                | Not available |
| <b>Teratogenicity:</b>                 | Not available |
| <b>Germ Cell Mutagenicity:</b>         | Not available |
| <b>Embryotoxicity:</b>                 | Not available |
| <b>Specific Target Organ Toxicity:</b> | Not available |
| <b>Reproductive Toxicity:</b>          | Not available |
| <b>Respiratory/Skin Sensitization:</b> | Not available |

## 12 ECOLOGICAL INFORMATION

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Toxicity to Water Organisms:</b>   | Based on analogy to similar materials this product is expected to exhibit low toxicity to aquatic organisms.                                                                                                                                                                                                                                                                                                        |
| <b>Toxicity to Soil Organisms:</b>    | Experiments show that when sewage sludge containing polydimethylsiloxane is added to soil, it has no effect on soil microorganisms, earthworms, or subsequent crops grown in soil.                                                                                                                                                                                                                                  |
| <b>Persistence and Degradability:</b> | 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 |

|                                   |                                                                                                                                                                                                                                                                                                              |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bioaccumulative Potential:</b> | biodegradability are not suitable for measuring the biodegradability of this product. The product is removed >80% during the sewage treatment process.                                                                                                                                                       |
| <b>Mobility in Soil:</b>          | 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.                                                                          |
| <b>PBT and vPvB Assessment:</b>   | 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 sewage sludge. If the sewage sludge is subsequently spread on soil, the silicone product is expected to degrade. |
| <b>Other Adverse Effects:</b>     | Not available                                                                                                                                                                                                                                                                                                |
|                                   | This product or similar has been shown to be non-toxic to sewage sludge bacteria.                                                                                                                                                                                                                            |

## 13 DISPOSAL CONSIDERATIONS

|                            |                                                                                                                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste Residues:</b>     | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container. |
| <b>Product Containers:</b> | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container. |

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

## 14 TRANSPORT INFORMATION

|                                                          |               |
|----------------------------------------------------------|---------------|
| <b>DOT (Dept. of Transportation, USA):</b>               | Not regulated |
| <b>TDG (Transportation of Dangerous Goods, Canada):</b>  | Not regulated |
| <b>IMDG (International Maritime Dangerous Goods):</b>    | Not regulated |
| <b>IATA (International Air Transport Association):</b>   | Not regulated |
| <b>ICAO (International Civil Aviation Organization):</b> | Not regulated |

## 15 REGULATORY INFORMATION

|                                    |                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------|
| <b>TSCA Inventory Status:</b>      | Included or exempted from listing                                                           |
| <b>DSCL (EEC):</b>                 | No data available                                                                           |
| <b>WHMIS (Canada):</b>             | No data available                                                                           |
| <b>SARA 302 [40CFR355]:</b>        | Non hazardous                                                                               |
| <b>SARA 304 [40CFR302]:</b>        | Non hazardous                                                                               |
| <b>SARA 311/312 [40CFR372]:</b>    | None present or none present in regulated quantities.                                       |
| <b>California Prop 65:</b>         | No components contain chemicals known to cause cancer, birth defects, or reproductive harm. |
| <b>New Jersey Right-to-Know:</b>   | Polydimethylsiloxane >60%                                                                   |
| <b>Pennsylvania Right-to-Know:</b> | Polydimethylsiloxane >60%                                                                   |

## 16 OTHER INFORMATION

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Revision Date:</b> | 08-17-2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Compliance:</b>    | This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Disclaimer:</b>    | This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use. |

