

SAFETY DATA SHEET

DPDM-400 Diphenyl Silicone Fluid

Data Prepared: October 1st, 2022



1. Product and company identification

Product Name: DPDM-400
Synonym: Polysiloxane; Dimethyl Diphenylsiloxane Copolymer Silanol Terminated; Dimethyldiphenylsiloxane; Siloxanes and Silicones, dimethyl, diphenyl, Polysiloxanes, dimethyl, diphenyl, Siloxanes and silicones di-Me, Di-Ph Methylphenylpolysiloxane
Material Uses: Industrial applications: Manufacture of cosmetics, Manufacture of personal care products.
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2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Classification of the Substance or mixture : Not classified.

GHS label elements

Signal word : No signal word

Hazard statements : No known significant effects or critical hazards

Precautionary statements

Prevention : Not applicable

Response : Not applicable

Storage : Not applicable

Disposal : Not applicable

Hazards not otherwise classified : None known

See toxicological information (Section 11)

3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : Siloxanes and Silicone, di-ME, di-Ph

Other means of identification : Polysiloxane, Dimethyl Diphenylsiloxane Copolymer Silanol Terminated; Dimethyldiphenylsiloxane, Siloxanes and silicones, dimethyl, diphenyl; Polysiloxanes, dimethyl, diphenyl; Siloxanes and silicone di-Me, Di-Ph Methylphenylpolysiloxane

Ingredient name	%	CAS number
Siloxanes and Silicones, di-Me, di-Ph	60-100	68083-14-7

Any concentration shown as a range is to protect confidentiality or due to batch variation.

Additional information

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting this section.

Occupational exposure limits, if available, are listed in section 8.

4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
Skin contact	: Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: No known significant effects or critical hazards
Inhalation	: No known significant effects or critical hazards
Skin contact	: No known significant effects or critical hazards
Ingestion	: No known significant effects or critical hazards

Over-exposure signs/symptoms

Eye contact	: No specific data
Inhalation	: No specific data
Skin contact	: No specific data
Ingestion	: No specific data

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Treat symptomatically, contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media

Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Formaldehyde

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Flash point : Closed cup: >94C (>201.2F)
Open Cup: 300C (572F)

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel.”

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small Spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via licensed waste disposal contractor.

Large Spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergent contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling

Protective measures : Keep away from heat and flame. Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage including any incompatibilities : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation in some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical product if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

9. Physical and chemical properties

Appearance

Physical state : Liquid.
Color : Colorless
Odor : Odorless
Odor threshold : Not available
pH : Not available
Melting point : Not available
Boiling point : Not available

Flash Point	: Closed cup: >94°C (>201.2°F) Open cup: 300°C (572°F)
Evaporation rate	: Not available
Flammability (solid, gas)	: Not available
Lower and upper explosive (flammable) limits	: Not available
Vapor pressure	: Not available
Vapor density	: Not available
Specific gravity	: 1.07
Solubility	: Insoluble in the following materials: cold water, hot water.
Solubility in water	: <0.001 g/l
Partition coefficient: n-octanol/water	: Not available
Auto-ignition temp	: Not available
Decomposition temp	: >150C (>302F)
Viscosity	: Not available

10. Stability and reactivity

Reactivity	: No specific test data to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data
Incompatible materials	: No specific data Slightly reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: When exposed to high temperatures may produce hazardous decomposition products. Decomposition products may include the following materials: Formaldehyde

11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available

Potential chronic health effects

Not available

Irritation/Corrosion

Product/ingredient name	Test	Species	Result
Siloxanes and Silicones, di-Me, di-Ph	-	Rabbit	Skin-Mild irritant
	-	Rabbit	Eyes-Mild irritant

Sensitization

Not available

Mutagenicity

Not available

Carcinogenicity

Not classified or listed by IARC, NTP, OSHA, EU and ACGIH

Reproductive toxicity

Not available

Teratogenicity

Not available

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Not available

12. Ecological information

Toxicity

Not available

Persistence and degradability

Bioaccumulative potential

Not available

13. Disposal considerations

The generation of waster should be avoided r minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste legislation and any regional local authority requirements. Dispose of surplus and non-recycled products via a licensed waste disposal contractor. Waster should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waster packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No	No	No
Additional information	-	-	-

Special precautions for user

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure the persons transporting the product know what to do in the event of an accident or spillage.

15. Regulatory information

US Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304

Composition/information on ingredients

No products were found

SARA 311/312

Classification

: Not applicable

Composition/information on ingredients

No products were found

State regulations

- Massachusetts** : None of the components are listed.
- New York** : None of the components are listed.
- New Jersey** : None of the components are listed.
- Pennsylvania** : None of the components are listed.
- California Prop 65** : The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product is not known to the State of California to cause cancer, birth defects or other reproductive harm.

International lists

National inventory

- Australia inventory (AICS)** : All components are listed or exempted.
- Canada inventory** : All components are listed or exempted.
- China inventory (IECSC)** : All components are listed or exempted.
- EU Inventory** : All components are listed or exempted.
- Japan inventory (ENCS)** : **Japan inventory (ENCS)**: All components are listed or exempted.
Japan inventory (ISHL): No determined
- New Zealand Inventory of Chemicals (NZIoC)** : All components are listed or exempted.
- Philippines inventory (PICCS)** : All components are listed or exempted.
- Korea inventory (KECI)** : All components are listed or exempted.
- Taiwan inventory (TCSI)** : All components are listed or exempted.
- United States inventory (TSCA 8b)** : All components are listed or exempted

16. Other Information

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	1
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-68-68.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Classification according to Directive 67/548/EEC [DSD] or Classification according to Directive 1999/45/EC [DPD]

Risk phrases : This product is not classified according to EU legislation.
Safety phrases : Not applicable

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.