

## 1. Identification

<b>Product identifier</b>	<b>DM-FLUID-100CS</b>
<b>Other means of identification</b>	
<b>Sales Code</b>	0174MJ
<b>Recommended use</b>	Fluids, Modified silicone fluids Resin modifier , Defoaming agent , Polishing agent , Powder processing agent , Water repellent , Textile treatment , Heating medium , Release agent , Cutting oil , Lubricating oil , Hydraulic oil , Damper oil , Cosmetic additive , Paint additive
<b>Recommended restrictions</b>	Industrial use only.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Name</b>	Shin-Etsu Silicones of America, Inc.
<b>Address</b>	1150 Damar Drive, Akron, OH 44305 USA
<b>Contact</b>	Regulation compliance group
<b>Telephone Number</b>	+1-330-630-9860
<b>Fax Number</b>	+1-330-630-9855
<b>Emergency Phone Number</b>	Chemtrec: +1-800-424-9300 (Within US) Chemtrec: +1-703-527-3887 (Outside US)

## 2. Hazard(s) identification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Not classified.
<b>OSHA defined hazards</b>	Not classified.
<b>Label elements</b>	
<b>Hazard symbol</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement</b>	Not available.
<b>Precautionary statement</b>	
<b>Prevention</b>	Not available.
<b>Response</b>	Not available.
<b>Storage</b>	Not available.
<b>Disposal</b>	Not available.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None.
<b>HMIS® ratings</b>	Health: 1 Flammability: 1 Physical hazard: 0

## 3. Composition/information on ingredients

### Substances

Chemical name	Common name and synonyms	CAS number	%
Dimethylpolysiloxane		63148-62-9	100

#### 4. First-aid measures

<b>Inhalation</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Eye contact</b>	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention immediately.
<b>Most important symptoms/effects, acute and delayed</b>	Not available.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Specific hazards arising from the chemical</b>	By heating and fire, harmful vapors/gases may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear appropriate personal protective equipment.
<b>Methods and materials for containment and cleaning up</b>	Eliminate sources of ignition.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills in original containers for re-use.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Provide adequate ventilation. Use care in handling/storage. Do not breathe mist or vapor.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Keep in original container.

#### 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Provide adequate general and local exhaust ventilation. Provide eyewash station.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Tightly sealed safety glasses according to EN 166.

<b>Skin protection</b>	
<b>Hand protection</b>	Wear protective gloves.
<b>Other</b>	No special protective equipment required.
<b>Respiratory protection</b>	If ventilation is insufficient when heating use chemical respirator with organic vapor cartridge.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. This product can generate formaldehyde at approximately 150 °C (300 °F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is heated at approximately 150 °C (300 °F) and above in the presence of air.

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## 9. Physical and chemical properties

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<b>Appearance</b>	
<b>Form</b>	Liquid.
<b>Color</b>	Colorless. Clear.
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not applicable
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Flash point</b>	> 201.2 °F (> 94 °C) Closed Cup > 572 °F (> 300 °C) Open Cup
<b>Evaporation rate</b>	Negligible (Butyl Acetate=1)
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	No data
<b>Flammability limit - upper (%)</b>	No data
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Negligible ( 25 °C )
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	0.97 ( 25 °C )
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	about 400°C (752°F)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	100 mm <sup>2</sup> /s ( 25 °C )

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## 10. Stability and reactivity

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<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	Strong oxidizing agents.

**Hazardous decomposition products**

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product:  
Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide.  
Formaldehyde.

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## 11. Toxicological information

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**Information on likely routes of exposure**

<b>Ingestion</b>	No significant effects are expected.
<b>Inhalation</b>	No significant effects are expected.
<b>Skin contact</b>	No significant effects are expected.
<b>Eye contact</b>	No significant effects are expected.

**Symptoms related to the physical, chemical and toxicological characteristics** Not available.

**Information on toxicological effects****Acute toxicity**

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Dimethylpolysiloxane (CAS 63148-62-9)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 5 g/kg (Estimated by similar product)

**Skin corrosion/irritation** SKIN-RABBIT :No skin irritation (Estimated by similar product)

**Serious eye damage/eye irritation** EYE-RABBIT : No eye irritation (Estimated by similar product)

**Respiratory or skin sensitization**

<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	Not available.

**Germ cell mutagenicity** Negative(Bacteria) (Estimated by similar product)

**Carcinogenicity** No carcinogenicity (Estimated by similar product)

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Reproductive toxicity** Not available.

**Specific target organ toxicity - single exposure** Not available.

**Specific target organ toxicity - repeated exposure** Not available.

**Aspiration hazard** Not available.

**Further information**

This product can generate formaldehyde at approximately 150 degrees C(300°F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles,organic vapor respirator or protective clothing when this product is heated at approximately 150 degrees C(300°F) and above in the presence of air.

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## 12. Ecological information

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<b>Ecotoxicity</b>	No ecotoxicity data noted for the ingredient(s).
<b>Persistence and degradability</b>	May cause decomposition in dry soils. (Estimated by similar product)
<b>Bioaccumulative potential</b>	No bioaccumulation (Estimated by similar product)
<b>Mobility in soil</b>	Not available.
<b>Other adverse effects</b>	Not available.

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## 13. Disposal considerations

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**Disposal instructions** Follow applicable Federal, State and Local regulations.

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## 14. Transport information

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### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** This product is not intended to be transported in bulk.

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## 15. Regulatory information

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**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.  
This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 313 (TRI reporting)**

### US state regulations

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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## 16. Other information, including date of preparation or last revision

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**Issue date** 12-05-2014

**Version #** 01

**NFPA ratings**

Health: 1  
Flammability: 1  
Instability: 0

**NFPA ratings****Disclaimer**

A number of potentially serious health effects can result from aerosol inhalation of this product. Take preventive measures such as controlling size of generated particle, ventilation, and respiratory protection when using this product in spray application. Please contact nearby sales representative for further information. This information is offered in good faith as typical values and not as a product specification. No warranty, 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. This product has been designed, manufactured and developed solely for general industrial use only. This product is not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the suitability of this product for any application, to make preliminary tests, and to confirm the safety of this product for their use. Users must never use this product for the purpose of implantation into the human body and/or injection into humans.

**Revision Information**

Composition / Information on Ingredients: Disclosure Overrides  
Physical & Chemical Properties: Multiple Properties  
Toxicological Information: Toxicological Data  
Ecological Information: Ecotoxicity  
Regulatory Information: United States

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