# SAFETY DATA SHEET



## 1. Identification

Product identifier DM-FLUID-500CS

Other means of identification

Sales Code 0178S4

Recommended use 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

**Recommended restrictions** Industrial use only.

Manufacturer/Importer/Supplier/Distributor information

Name Shin-Etsu Silicones of America, Inc.
Address 1150 Damar Drive, Akron, OH 44305 USA

**Contact** Regulation compliance group

**Telephone Number** +1-330-630-9860 **Fax Number** +1-330-630-9855

Emergency Phone Number Chemtrec: +1-800-424-9300 (Within US)

Chemtrec: +1-703-527-3887 (Outside US)

## 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement Not available.

**Precautionary statement** 

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

# 3. Composition/information on ingredients

### **Substances**

Material name: DM-FLUID-500CS SDS US

Chemical name	Common name and synonyms	CAS number	%
Dimethylpolysiloxane		63148-62-9	100
	4. First-aid measures		
Inhalation	Under normal conditions of intended use, this m	aterial is not expected to b	e an inhalation hazard
Skin contact	Wash skin with soap and water.		
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. Get medical attention immediately		
Most important symptoms/effects, acute and delayed	Not available.		
Indication of immediate medical attention and special treatment needed	Treat symptomatically.		
General information	Ensure that medical personnel are aware of the protect themselves.	material(s) involved, and to	ake precautions to
	5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon	dioxide (CO2).	
Unsuitable extinguishing media	Do not use a solid water stream as it may scatte	er and spread fire.	
Specific hazards arising from the chemical	By heating and fire, harmful vapors/gases may be formed.		
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.		
Fire-fighting equipment/instructions	Move containers from fire area if you can do so	without risk.	
	6. Accidental release measu	res	
Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipmen	t.	
Methods and materials for containment and cleaning up	Eliminate sources of ignition.		
	Large Spills: Stop the flow of material, if this is we possible. Cover with plastic sheet to prevent spr vermiculite, sand or earth to soak up the production.	eading. Use a non-combus	stible material like
	Small Spills: Wipe up with absorbent material (e remove residual contamination.	.g. cloth, fleece). Clean sui	rface thoroughly to
	Never return spills in original containers for re-us	se.	
Environmental precautions	Prevent further leakage or spillage if safe to do sonto the ground.		ains, water courses or
	7. Handling and storage		
Precautions for safe handling	Provide adequate ventilation. Use care in handli	ng/storage. Do not breathe	e mist or vapor.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dr container.	-	•
	8. Exposure controls/personal pro	otection	
Occupational exposure limits	No exposure limits noted for ingredient(s).		
Biological limit values	No biological exposure limits noted for the ingre-	dient(s).	
Appropriate engineering controls	Provide adequate general and local exhaust ver	• •	station.
Individual protection measures,  Eye/face protection	such as personal protective equipment Tightly sealed safety glasses according to EN 19		

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Skin protection

Wear protective gloves. Hand protection

No special protective equipment required. Other

Respiratory protection

If ventilation is insufficient when heating use chemical respirator with organic vapor cartridge.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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.

## 9. Physical and chemical properties

**Appearance** 

**Form** Liquid.

Colorless. Clear. Color

Odor Odorless **Odor threshold** Not available. Not available. Melting point/freezing point Not applicable Initial boiling point and boiling Not applicable

range

> 201.2 °F (> 94 °C) Closed Cup Flash point

> 572 °F (> 300 °C) Open Cup

Negligible (Butyl Acetate=1) **Evaporation rate** 

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%)

Vapor pressure Negligible (25 °C) Not applicable Vapor density Relative density 0.97 (25 °C)

Solubility(ies)

Solubility (water) Not soluble (<1 ppm)

Partition coefficient (n-octanol/water)

Not available.

about 400°C (752°F) **Auto-ignition temperature** 

**Decomposition temperature** Not available.

500 mm2/s ( 25 °C ) **Viscosity** 

### 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

**Chemical stability** Stable at normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

**Conditions to avoid** None known.

Strong oxidizing agents. Incompatible materials

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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.

## 11. Toxicological information

Information on likely routes of exposure

Ingestion No significant effects are expected. Inhalation No significant effects are expected. No significant effects are expected. Skin contact Eye contact No significant effects are expected.

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

Information on toxicological effects

Acute toxicity

**Product Test Results Species** 

Dimethylpolysiloxane (CAS 63148-62-9)

Acute Oral

LD50 Rat > 5 g/kg (Estimated by similar product)

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

irritation

EYE-RABBIT: No eye irritation (Estimated by similar product)

Respiratory or skin sensitization

Respiratory sensitization Not available. Not available. Skin sensitization

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 -Not available.

single exposure

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.

## 12. Ecological information

**Ecotoxicity** No ecotoxicity data noted for the ingredient(s).

May cause decomposition in dry soils. (Estimated by similar product) Persistence and degradability

Bioaccumulative potential No bioaccumulation (Estimated by similar product)

Not available. Mobility in soil Other adverse effects Not available.

## 13. Disposal considerations

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

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## 14. Transport information

### 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.

# 15. Regulatory information

**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).

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

Issue date	12-19-2014	
Vorsion #	01	

Material name: DM-FLUID-500CS SDS US

**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** 

Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Disclosure Overrides

Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data Regulatory Information: United States

HazReg Data: Pacific Rim

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