SAFETY DATA SHEET



1. Identification

Product identifier DM-FLUID-50,000CS

Other means of identification

Sales Code 0280S2

Recommended use Fluids, Modified silicone fluids

> Resin modifier, Defoaming agent, Polishing agent, Release agent, Lubricating oil, Hydraulic oil, Damper oil

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

Regulation compliance group Contact

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

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

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

2. Hazard(s) identification

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

Label elements

Hazard symbol None. None. Signal word

Hazard statement Not available.

Precautionary statement

Not available. Prevention Not available. Response Not available. **Storage Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information HMIS® ratings

None. 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

Material name: DM-FLUID-50,000CS SDS US

4. First-aid measures Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Skin contact Wash skin with soap and water. Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation Eve contact develops and persists. Ingestion Rinse mouth. Get medical attention immediately. Most important Not available. symptoms/effects, acute and delayed Indication of immediate Treat symptomatically. medical attention and special treatment needed **General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 5. Fire-fighting measures Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Suitable extinguishing media Do not use a solid water stream as it may scatter and spread fire. Unsuitable extinguishing media Specific hazards arising from By heating and fire, harmful vapors/gases may be formed. the chemical Firefighters must use standard protective equipment including flame retardant coat, helmet, Special protective equipment gloves, rubber boots, and self-contained breathing apparatus. and precautions for firefighters Fire fighting Move containers from fire area if you can do so without risk. equipment/instructions 6. Accidental release measures Personal precautions, Wear appropriate personal protective equipment. protective equipment and emergency procedures Eliminate sources of ignition. Methods and materials for containment and cleaning up 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. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or **Environmental precautions**

onto the ground.

7. Handling and storage

Precautions for safe handling

Provide adequate ventilation. Use adequate ventilation when this product is heated at approximately 150 °C (300 °F) and above in the presence of air.

Provide adequate general and local exhaust ventilation. Provide eyewash station.

Use care in handling/storage. Do not breathe mist or vapor. Avoid prolonged exposure.

Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep in original container.

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Individual protection measures, such as personal protective equipment

Eye/face protection Tightly sealed safety glasses according to EN 166.

Material name: DM-FLUID-50,000CS

Skin protection

Wear protective gloves. Hand protection

Wear suitable protective clothing. 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

Physical state Liquid. Liquid. **Form**

Color Colorless. Clear.

Odorless Odor **Odor threshold** Not available.

Not measurable (Refer to water solubility) No data

No data

Melting point/freezing point Initial boiling point and boiling

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 applicable. Upper/lower flammability or explosive limits Explosive limit - lower (%) No data

No data Explosive limit - upper (%) Negligible (25 °C) Vapor pressure

Vapor density Not applicable 0.98 (25 °C) Relative density

Solubility(ies)

Solubility (water) Not soluble (<1 ppm)

Partition coefficient (n-octanol/water)

No data

Auto-ignition temperature

about 400°C (752°F)

Decomposition temperature

Not available.

50000 mm2/s (25 °C) **Viscosity**

10. Stability and reactivity

No hazardous reaction known under normal conditions of use, storage and transport. Reactivity

Stable at normal conditions. Chemical stability

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid None known.

Incompatible materials 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

Information on likely routes of exposure

InhalationNo significant effects are expected.Skin contactNo significant effects are expected.Eye contactNo significant effects are expected.IngestionNo significant effects are expected.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

Acute toxicity

Product Species Test Results

DM-FLUID-50,000CS

Acute Oral

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

Not classified.(Rabbit) (Estimated by similar product)

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not available.

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

Carcinogenicity No carcinogenicity (Estimated by similar product)

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Not available.

Specific target organ toxicity - Not available.

single exposure

Not available.

Specific target organ toxicity - repeated exposure

Asniration hazard

Aspiration hazard Not available.

Chronic effects Not available.

Further information

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.

12. Ecological information

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

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

Bioaccumulative potential No bioaccumulation (Estimated by similar product)

Mobility in soilNot available.Mobility in generalNo data available.Other adverse effectsNot available.

Material name: DM-FLUID-50,000CS

13. Disposal considerations

Disposal instructions

Follow applicable Federal, State and Local regulations.

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

This product is not intended to be transported in bulk.

the IBC Code

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

This substance is on the TSCA 8(b) inventory and is designated "active".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

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. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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

 Country(s) or region Inventory name On inventory (yes/no)*

Japan Inventory of Existing and New Chemical Substances (ENCS)

Korea Existing Chemicals List (ECL) Yes

New Zealand **New Zealand Inventory** Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory *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

11-26-2015 Issue date 05-11-2023 **Revision date**

Version # 03

Health: 1 **HMIS®** ratings

Flammability: 1 Physical hazard: 0

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 This document has undergone significant changes and should be reviewed in its entirety.

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Yes