

# SAFETY DATA SHEET

## DIMETHYL SILICONE FLUID 1 CS

<b>Version:</b> 1.0	<b>Revision Date:</b> 02/2015	<b>MSDS Number:</b> 1264936-00001	<b>Date Completed:</b> 10/2015
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### SECTION 1. IDENTIFICATION

Product Name: Dimethyl Silicone Fluid 1 CS (centistokes)

**Manufacturer or supplier's details**

Company name of supplier: JIT Silicones Plus

Address: 5 Industrial Park Drive  
Oakdale, PA 15071

Telephone: 855-548-7587

Emergency Telephone: 24 Hour Emergency Telephone:  
CHEMTREC: (800) 424-9300

**Recommended use of the chemical and restrictions on use**

Recommended use: Intermediate  
Solvent  
Cosmetics  
Cleaning/washing agents and additives

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### SECTION 2 - HAZARDS IDENTIFICATION

**GHS Classification:**

Flammable liquids: Category 3

**GHS Label element:**

Hazard pictograms



**Signal Word:**

Warning

**Hazard Statements:**

H226 Flammable liquid and vapor.

**Precautionary Statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical ventilating/ lighting / equipment.  
P242 Use only non-sparking tools  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other Hazards:**

Static-accumulating flammable liquid.  
Vapors may form explosive mixture with air

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Substance / Mixture:</b>	Substance
<b>Substance name:</b>	Octamethyltriisiloxane
<b>CAS-No.:</b>	107-51-7
<b>Chemical nature:</b>	Silicone

#### Hazardous Ingredients:

Chemical Name:	CAS-No.:	Concentration (% w/w)
Hexamethyldisiloxane	107-51-7	>= 90 - <= 100

### SECTION 4. FIRST AID MEASURES

If inhaled:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed:	None known.
Protection of first-aiders:	No special precautions are necessary for first aid responders.
Notes to Physician:	Treat symptomatically and supportively.

### SECTION 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO2)
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<b>Unsuitable extinguishing media:</b>	High volume water jet
<b>Specific hazards during fire fighting:</b>	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Fire burns more vigorously than would be expected. Exposure to combustion products may be a hazard to health.
<b>Hazardous combustion products:</b>	Carbon oxides Silicon oxides Formaldehyde
<b>Specific extinguishing methods:</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
<b>Special protective equipment for fire-fighters:</b>	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency Procedures:</b> :	Remove all sources of ignition. Follow safe handling advice and personal protective equipment recommendations.
<b>Environmental precautions:</b>	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
<b>Methods and materials for containment and cleaning up:</b>	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet.

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For large spills, provide diking or other appropriate containment to keep materials from spreading. If diked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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### SECTION 7. HANDLING AND STORAGE

- Technical measures:** Ensure all equipment is electrically grounded before beginning transfer operations.  
This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations.  
Restrict flow velocity in order to reduce the accumulation of static electricity.
- Local/Total ventilation:** Use with local exhaust ventilation.  
Use only in an area equipped with explosion proof exhaust ventilation.
- Advice on safe handling:** Handle in accordance with good industrial hygiene and safety practice.  
Non-sparking tools should be used.  
Keep container tightly closed.  
Keep away from heat and sources of ignition.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage:** Keep in properly labeled containers.  
Keep tightly closed.  
Keep in a cool, well-ventilated place.

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Store in accordance with the particular national regulations.  
Keep away from heat and sources of ignition.

**Materials to avoid:**

Do not store with the following product types:  
Strong oxidizing agents  
Organic peroxides  
Flammable solids  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Substance and mixtures which in contact with water emit flammable gases  
Explosives  
Gases

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ingredients with workplace control parameters**

Ingredients	CAS-No.	Value Type (Form of exposure)	Control parameters / Permissible concentration	Basis
Octamethyltrisiloxane	107-51-7	TWA	200 ppm	DCC OEL

**Engineering measures:**

Processing may form hazardous compounds (see Section 10).  
Minimize workplace exposure concentrations.  
Use only in an area equipped with explosion proof exhaust ventilation.  
Use with local exhaust ventilation.

**Personal protective equipment:**

**Respiratory protection:**

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

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<b>Hand Protection Material:</b>	Antistatic gloves.
<b>Material:</b>	Flame retardant gloves.
<b>Remarks:</b>	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Wash hands before breaks and at the end of workday.
<b>Eye Protection:</b>	Wear the following personal protective equipment: Safety glasses.
<b>Skin and Body Protection:</b>	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.).
<b>Hygiene Measures:</b>	Ensure that eye flushing systems and safety showers are located close to the working place. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry ( <a href="http://www.SEHSC.com">www.SEHSC.com</a> ) or contact the customer service group.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	None
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting Point/freezing Point::</b>	No data available

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<b>Initial boiling point and boiling range:</b>	152° C
<b>Flash point:</b>	30° C Method: Tag closed cup
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	Not applicable
<b>Upper Explosion limit:</b>	No data available
<b>Lower Explosion limit:</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Relative vapor density:</b>	No data available
<b>Relative density:</b>	0.816
<b>Solubility(ies):</b>	
<b>Water solubility:</b>	No data available
<b>Partition coefficient:</b> n-octanol/water:	No data available
<b>Autoignition Temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity</b> <b>Viscosity, kinematic</b>	1 cSt
<b>Explosive properties:</b>	Not explosive
<b>Oxidizing properties:</b>	The substance or mixture is not classified as oxidizing.
<b>Molecular weight:</b>	No data available

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### SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Not classified as a reactivity hazard.
<b>Chemical Stability:</b>	Stable under normal conditions.



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<b>Possibility of hazardous reactions:</b>	Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. When heated to temperatures above 150° C (300° F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required. See OSHA formaldehyde standard, 29CFR 1910.1048. Hazardous decomposition products will be formed at elevated temperatures.
<b>Conditions to avoid:</b>	Handling operations that can promote accumulation of static charges. Heat, flames and sparks.
<b>Incompatible materials:</b>	Oxidizing agents.
<b>Hazardous decomposition products:</b>	
<b>Thermal decomposition:</b>	Formaldehyde

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### SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure:**

Inhalation  
Skin contact  
Ingestion  
Eye contact

**Acute toxicity:**

Not classified based on available information.

**Product:**

**Acute Oral Toxicity:**

LD50 (Rat): >2,000 ml/kg

**Assessment:** The substance or mixture has no acute oral toxicity.

**Remarks:** Based on test data.

**Acute Inhalation Toxicity:**

LC50 (Rat): > 2350 ppm

**Exposure time:** 4 h

**Test atmosphere:** vapor

**Assessment:** The substance or mixture has no

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acute inhalation toxicity.

**Remarks:** Based on test data.

<b><u>Ingredients:</u></b>	
<b>Octamethyltrisiloxane:</b>	
<b>Acute Oral Toxicity:</b>	LD50 (Rat): > 2,000 mg/kg <b>Assessment:</b> The substance or mixture has no acute oral toxicity. <b>Remarks:</b> Based on test data.
<b>Acute Inhalation Toxicity:</b>	LC50 (Rat): > 2350 ppm Exposure time: 4 h Test atmosphere: vapor <b>Assessment:</b> The substance or mixture has no acute inhalation toxicity. <b>Remarks:</b> Based on test data.
<b>Acute Dermal Toxicity:</b>	LD50 (Rat): > 2,000 mg/kg <b>Assessment:</b> The substance or mixture has no acute dermal toxicity. <b>Remarks:</b> Based on test data.

### **Skin corrosion/irritation**

Not classified based on available information.

### **Product:**

Species: Rabbit

Result: No skin irritation

Remarks: Based on test data

### **Ingredients:**

#### **Octamethyltrisiloxane:**

Species: Rabbit

Result: No skin irritation

Remarks: Based on test data

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Ingredients:**

#### **Octamethyltrisiloxane:**

Result: No eye irritation

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Remarks: Based on data from similar materials.

### **Respiratory or skin sensitization**

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

### **Product:**

Assessment: Does not cause skin sensitization.

Test Type: Human repeat insult patch test (HRIPT)

Species: Humans

Remarks: Based on test data

### **Ingredients:**

#### **Octamethyltrisiloxane:**

Assessment: Does not cause skin sensitization.

Test Type: Human repeat insult patch test (HRIPT)

Species: Humans

Remarks: No known sensitizing effect.

Based on test data.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Product:**

Genotoxicity in vitro:

Test Type: Chromosome aberration test in vitro

Result: negative

Remarks: Based on test data.

Test Type: Bacterial reverse mutation assay (AMES)

Results: negative

Remarks: Based on test data.

### **Ingredients:**

#### **Octamethyltrisiloxane:**

Genotoxicity in vitro:

Test Type: Chromosome aberration test in vitro

Result: negative

Remarks: Based on test data.

Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: Based on test data.

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**Carcinogenicity:**

Not classified based on available information.

**IARC:**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP:**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity:**

Not classified based on available information.

**Product:****Effects on fertility:**

Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test.  
Species: Rat, male and female  
Application Route: Inhalation (vapor)  
Symptoms: No effects on fertility.  
Remarks: Based on test data.

**Effects on fetal development:**

Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test.  
Species: Rat, male and female  
Application Route: Inhalation (vapor)  
Symptoms: No effects on fetal development  
Remarks: Based on test data.

**Reproductive toxicity –****Assessment:**

No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**Ingredients:****Octamethyltrisiloxane:****Effects on fertility:**

Test Type: Combined repeated dose toxicity study with

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the reproduction/developmental toxicity screening test.

Species: Rat, male and female

Application Route: Inhalation (vapor)

Symptoms: No effects on fertility

Remarks: Based on test data

Test Type: Uterotrophic assay

Species: Rat, female

Application Route: Inhalation (vapor)

Result: negative

Remarks: Based on test data

### Effects on fetal development:

Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test.

Species: Rat, male and female

Application Route: Inhalation (vapor)

Symptoms: No effects on fetal development.

Remarks: Based on test data.

### Reproductive toxicity – Assessment:

No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.

### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

### Product:

Routes of exposure: Inhalation (vapor)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

### Ingredients:

#### Octamethyltrisiloxane:

Routes of exposure: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Routes of exposure: Inhalation (vapor)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d

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or less.

### Repeated dose toxicity

#### **Product:**

Species: Rat

Application Route: Inhalation (vapor)

Remarks: Based on test data

#### **Ingredients**

##### **Octamethyltrisiloxane:**

Species: Rat

Application Route: Ingestion

Remarks: Based on test data

Species: Rat

Application Route: Inhalation (vapor)

Remarks: Based on test data

### Aspiration toxicity

Not classified based on available information

### Further Information

#### **Ingredients:**

##### **Octamethyltrisiloxane:**

Remarks: This material contains octamethyltrisiloxane (L3). Repeated inhalation exposure in rats to L3 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

#### **Ingredients:**

##### **Octamethyltrisiloxane:**

Toxicity to fish:

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.019 mg/l

Exposure time: 96h

Method: OECD Test Guideline 203

Remarks: Based on test data.

No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic

EC50 (Daphnia magna (Water flea)): > 0.020 mg/l

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invertebrates:

Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility.

Toxicity to algae:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.0094 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic toxicity):	NOEC (Oncorhynchus mykiss (rainbow trout)) > 0.027 mg/l Method: OECD Test Guideline 210 Remarks: Based on test data No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia sp.): > 0.15 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211  
Remarks: No toxicity at the limit of solubility.

Ecotoxicology Assessment  
Acute aquatic toxicity:

This product has no known ecotoxicological effects.

Chronic aquatic toxicity:

This product has no known ecotoxicological effects.

### Persistence and degradability

#### Ingredients:

##### **Octamethyltrisiloxane:**

Biodegradability

Result: Not readily biodegradable  
Biodegradation: 0%  
Method: OECD Test Guideline 310

Stability in water

Degradation half life: 329 h pH: 7  
Method: OECD Test Guideline 111  
Remarks: Based on test data

#### **Bioaccumulative potential:**

#### Ingredients:

##### **Octamethyltrisiloxane:**

Bioaccumulation

Species: Pimephales (fathead minnow)  
Bioconcentration factor (BCF): >= 500  
Method: OECD Test Guideline 305

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Remarks: Biomagnification factor < 1

Partition coefficient  
n-octanol/water:

Log Pow: >= 4  
Remarks: Based on test data

**Mobility in soil:**  
No data available

**Other adverse effects**  
No data available

### SECTION 13. DISPOSAL PROCEDURES

#### Disposal methods

Resource Conservation and  
Recovery Act (RCRA):

When a decision is made to discard this material as supplied, it is  
classified as a RCRA hazardous waste.

Waste Code:

D001: Ignitability

Waste from residues:

Dispose of in accordance with local regulations.

Contaminated packaging:

Dispose of as unused product.  
Empty containers should be taken to an approved waste handling  
site for recycling or disposal.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulation

##### UNRTDG

UN number: UN 1993  
Proper shipping name: FLAMMABLE LIQUID, N.O.S.  
(Octamethyltrisiloxane)

Class: 3  
Packing group: III  
Labels: 3

##### IATA-DGR

UN/ID No. UN 1993  
Proper shipping name: Flammable liquid, n.o.s.



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(Octamethyltrisiloxane)  
Class: 3  
Packing group: III  
Labels: Flammable Liquids  
Packing instruction  
(cargo aircraft) 366  
Packing instruction  
(passenger aircraft) 355

### IMDG-Code

UN number: UN 1993  
Proper shipping name: FLAMMABLE LIQUID, N.O.S.  
(Octamethyltrisiloxane)  
Class: 3  
Packing group: III  
Labels: 3  
EmS Code: F-E, S-E  
Marine pollutant: No

### Transport in bulk according to Annex II or MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number: UN 1993  
Proper shipping name: FLAMMABLE LIQUIDS, N.O.S.  
(Octamethyltrisiloxane)  
Class: 3  
Packing group: III  
Labels: FLAMMABLE LIQUID  
ERG Code: 128  
Marine pollutant: No

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### SECTION 15. REGULATORY INFORMATION

#### EPCRA – Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards:** Fire Hazard

**SARA 302** No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### US State Regulations

##### Pennsylvania Right To Know

Octamethyltrisiloxane: 107-51-7 90 – 100 %

##### New Jersey Right To Know

Octamethyltrisiloxane 107-51-7 90 – 100 %

##### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

NZloC All ingredients listed or exempt.

REACH: All ingredients (pre-)registered or exempt.

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

AICS: All ingredients listed or exempt.

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IECSC:	All ingredients listed or exempt.
ENCS/ISHL:	All components are listed on ENCS/ISHL or exempted from inventory listing.
KECI:	All ingredients listed, exempt or notified.
PICCS:	All ingredients listed or exempt.
DSL:	All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

### Inventories:

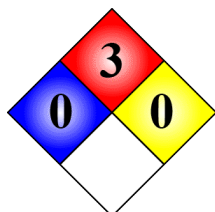
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA).

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## SECTION 16. OTHER INFORMATION

### Further Information

#### NFPA:



#### HMIS III:

HEALTH	0
FLAMMABILITY	3
PHYSICAL HAZARD	0

# SAFETY DATA SHEET

## DIMETHYL SILICONE FLUID 1 CS

<b>Version:</b> 1.0	<b>Revision Date:</b> 02/2015	<b>MSDS Number:</b> 1264936-00001	<b>Date Completed:</b> 10/2015
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### Full text of other abbreviations

DCC OEL / TWA:

Time weighted average

Sources of key data used to compile the Material Safety Data Sheet.

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date: 02/23/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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