



# SAFETY DATA SHEET

## 1. Chemical and company identification

Name of chemical (Product name) **KF-96SS-10,000CS**

### MANUFACTURER

**COMPANY NAME** Shin-Etsu Chemical Co., Ltd.  
**ADDRESS** 13-1, Isobe 2-chome, Annaka-shi, Gunma 379-0195, JAPAN  
**CONTACT** Quality Assurance Department (Gunma Complex)  
**TELEPHONE NUMBER** 027-385-2172  
**FAX NUMBER** 027-385-2753

### SUPPLIER

**COMPANY NAME** Shin-Etsu Chemical Co., Ltd.  
**ADDRESS** 6-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo 100-0004, JAPAN  
**CONTACT** Planning & Administration Department Silicone Division  
**TELEPHONE NUMBER** 03-3246-5121  
**FAX NUMBER** 03-3246-5381  
**EMERGENCY** 027-385-2172 (Holiday/Nighttime: 027-385-2111)

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

**Intended use** Fluids, Modified silicone fluids  
 Resin modifier ,  
 Defoaming agent ,  
 Polishing agent ,  
 Release agent ,  
 Lubricating oil ,  
 Hydraulic oil ,  
 Damper oil

**Restrictions on use** Industrial use only.

## 2. Hazards identification

### GHS classification

The product is not classified according to GHS.

## 3. Composition/information on ingredients

Substance or mixture Substance

Components	CAS Number	Gazette notification		Concentration (%)
		ENCS no.	ISHL no.	
Dimethylpolysiloxane	63148-62-9	(7)-476	(7)-476	100

## 4. First aid measures

**If inhaled** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

**If on skin** Wash skin with soap and water.

**If in eyes** Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**If swallowed** Rinse mouth. Get medical attention immediately.

**Protection of first-aid responders** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Notes to physician** Treat symptomatically.

## 5. Fire-fighting measures

**Extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Extinguishing media to avoid** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards** By heating and fire, harmful vapors/gases may be formed.

<b>Special fire fighting procedures</b>	Move containers from fire area if you can do so without risk.
<b>Protection of fire-fighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency measures</b>	Wear appropriate personal protective equipment.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>Methods or 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.

## 7. Handling and storage

### Handling

<b>Technical measures (e.g. Local and general ventilation)</b>	Provide adequate ventilation. Use adequate ventilation when this product is heated at approximately 150 degrees C(300°F) and above in the presence of air.
<b>Safe handling advice</b>	Use care in handling/storage. Do not breathe mist or vapor.
<b>Contact avoidance measures</b>	Refer to section 10: stability and reactivity.
<b>Hygiene measures</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.

### Storage

<b>Safe storage conditions</b>	Keep container tightly closed. Store in a cool, dry place out of direct sunlight.
<b>Safe packaging materials</b>	Keep in original container.

## 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Engineering measures</b>	Provide adequate general and local exhaust ventilation. Provide eyewash station.
<b>Personal protective equipment</b>	
<b>Respiratory protection</b>	If ventilation is insufficient when heating use chemical respirator with organic vapor cartridge.
<b>Hand protection</b>	Wear protective gloves.
<b>Eye protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and body protection</b>	No special protective equipment required.

## 9. Physical and chemical properties

### Appearance

<b>Form</b>	Liquid.
<b>Color</b>	Colorless. Clear.
<b>Odor</b>	Odorless
<b>pH</b>	Not available.
<b>Melting point/Freezing point</b>	Not applicable
<b>Boiling point, 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>Auto-ignition temperature</b>	about 400°C (752°F)
<b>Flammability limit - lower (%)</b>	No data
<b>Flammability limit - upper (%)</b>	No data
<b>Vapor pressure</b>	Negligible ( 25 °C )
<b>Vapor density</b>	Not applicable
<b>Evaporation rate</b>	Negligible (Butyl Acetate=1)
<b>Specific gravity</b>	0.98 ( 25 °C )
<b>Solubility (Water)</b>	Not soluble (<1 ppm)
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	10000 mm <sup>2</sup> /s ( 25 °C )

## 10. Stability and reactivity

<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 specific.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	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

Product	Species	Test Results
Dimethylpolysiloxane (CAS 63148-62-9)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 5 g/kg (Estimated by similar product)
<b>Skin corrosion/irritation</b>	SKIN-RABBIT	:No skin irritation (Estimated by similar product)
<b>Serious eye damage/eye irritation</b>	EYE-RABBIT	: No eye irritation (Estimated by similar product)
<b>Germ cell mutagenicity</b>	Negative(Bacteria)	(Estimated by similar product)
<b>Carcinogenicity</b>	No carcinogenicity	(Estimated by similar product)
<b>Other information</b>	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

<b>Ecotoxicity</b>	None known.
<b>Persistence and degradability</b>	May cause decomposition in dry soils. (Estimated by similar product)
<b>Bioaccumulation</b>	No bioaccumulation (Estimated by similar product)

## 13. Disposal considerations

<b>Local disposal regulations</b>	Incinerate. Incinerator should be appropriately equipped for silica and other fine powder which the product will generate in incineration. Workers should wear appropriate personal protective equipment(s) such as respirator. Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Dispose of contents/container in accordance with local/regional/national/international regulations.
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## 14. Transport information

**International regulations**

**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.

**National regulations** Follow regulation in section 15 for domestic transportation.

**15. Regulatory information****Industrial Safety and Health Act****Specified substances regulation****Class 1 designated chemical substances**

Not regulated.

**Class 2 designated chemical substances**

Not regulated.

**Class 3 designated chemical substances**

Not regulated.

**Organic solvent regulation****Class 1 organic solvents**

Not regulated.

**Class 2 organic solvents**

Not regulated.

**Class 3 organic solvents**

Not regulated.

**Notifiable substances**

Not applicable

**Labeling substances**

Not applicable

**Poisonous and Deleterious Substances Control Act****Specified poisonous substances**

Not regulated.

**Poisonous substances**

Not regulated.

**Deleterious substances**

Not regulated.

**Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.****Class I specified chemical substances**

Not regulated.

**Class II specified chemical substances**

Not regulated.

**Monitoring chemical substances**

Not regulated.

**Priority Assessment Chemical Substances (PACs)**

Not regulated.

**Law concerning Pollutant Release and Transfer Register****Specified class 1 substances (substance name, ordinance number and content)**

Not applicable

**Class 1 substances (substance name, ordinance number and content)**

Not applicable

**Class 2 substances (substance name, ordinance number and content)**

Not applicable

**Fire Service Act**

Designated combustible material (Combustible liquids)

**Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule**

Not regulated.

**Air Law, Enforcement Rule**

Not regulated.

**Explosives Control Act**

Not applicable.

**High Pressure Gas Safety Act**

Not applicable.

**Act on Prevention of Marine Pollution and Maritime Disaster**

Not applicable.

## 16. Other information

### Bibliography

HSDB® - Hazardous Substances Data Bank  
IARC Monographs. Overall Evaluation of Carcinogenicity  
National Toxicology Program (NTP) Report on Carcinogens  
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices  
Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits  
JIS Z 7252:2009 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"  
JIS Z 7253:2012 Hazard communication of chemicals based on GHS – Labelling and Safety Data Sheet (SDS)  
Japan Chemical Industry Association (JCIA) GHS Guideline, June 2012

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 safety data sheet was prepared in accordance with JIS Z 7253:2012. 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.

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