

# SAFETY DATA SHEET

## FLUOROSILICONE GREASE - 83451

<b>Version:</b> 1.0	<b>Revision Date:</b> 01/2015	<b>MSDS Number:</b> GHS – 15040 – FL-GR	<b>Date Completed:</b> 09/2015
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### SECTION 1. IDENTIFICATION

Product Name: Fluorosilicone Grease

**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: Lubricant (not for medical purposes)

### SECTION 2. HAZARDS IDENTIFICATION

**Classification:** Not hazardous.

**Labeling:** Symbol: None

Signal Word: None

Hazard Statement: Not Hazardous

**Precautionary Statements:**

Use personal protective equipment as required.  
Wear safety glasses and gloves.  
Avoid contact with eyes.  
Non-flammable or combustible, but may burn if involved in a fire.  
At temperatures above 150°C, formaldehyde and trifluoropropionaldehyde can form in the presence of oxygen.  
At extreme elevated temperatures HF, perfluoroisobutylene, perfluorinated acid fluorides and other toxic vapors can be generated.  
Wash hands thoroughly before using tobacco or other products intended to be burned and inhaled.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identify:	Common Name:	CAS-No.	Impurities:
Trifluoro propylmethyl siloxane, trimethyl terminated, 60-72%	Fluorosilicone	63148-56-1	No information provided by manufacturer.
Polytetrafluoroethylene, 28-40%	PTFE	9002-84-0	Less than 1%, not classifiable

### SECTION 4. FIRST AID MEASURES

In case of eye contact:	Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention. Obtain medical attention.
In case of skin contact:	Wash affected area with soap and water. If signs/symptoms persist, get medical attention. No need for first aid is anticipated.
In case of inhalation:	If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, get medical attention.
In case of ingestion:	If swallowed, do not induce vomiting. If irritation or discomfort occurs, obtain medical assistance.

### SECTION 5. FIRE-FIGHTING MEASURES

<b>Autoignition Temperature:</b>	>300° C
<b>Flash Point:</b>	>300° C
<b>Flammable Limits (LEL):</b>	Not determined
<b>Flammable Limits (UEL):</b>	Not determined
<b>Suitable extinguishing media:</b>	On large fires use dry chemical, foam, or water spray. On small fires use carbon dioxide, dry chemical, or water spray. Water can be used to cool fire exposed containers.
<b>Unsuitable extinguishing media:</b>	None.
<b>Specific hazards in case of fire:</b>	Decomposes on heating and can release formaldehyde. Avoid reaction with oxidizers. At extreme elevated temperatures HF, perfluoroisobutylene, perfluorinated acid fluorides and other toxic vapors can be generated. Hydrogen Fluoride has an ACGH TLV of 3 ppm as fluoride as a Ceiling Limit and a OSHA pel of 3ppm of fluoride as an eight hour TWA and 6 ppm as a Short Term Exposure Limit. The odor threshold for HF is 0.04 ppm,

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providing good warning properties for exposure.

**Special protective equipment and precautions for fire fighters:**

No acute hazard. Move container from fire area, if possible. Avoid breathing vapors or dusts. Keep upwind. Use full firefighting gear (bunker gear). Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive pressure mode in combination with a separate escape air supply. Use any self-contained breathing apparatus with a full face piece.

Alert fire brigade and indicate hazard location. Wear breathing apparatus plus protective clothing. Cool fire exposed containers with water spray from a protected location. Do not approach containers suspected to be hot. If safe to do so, remove containers from path of fire.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Use appropriate personal protection. (See Section 8.)

**Environmental precautions:**

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

**Methods and materials for containment and cleaning up:**

Observe precautions from other sections. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with an appropriate solvent. Seal the container..

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### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling:**

Avoid contact with skin, inhalation of mist, or ingestion. See Section 8 for personal protection equipment. Practice good personal hygiene to prevent accidental ingestion after handling. Properly dispose of clothing that cannot be decontaminated.

**Conditions for safe storage, including any incompatibilities:**

Store away from oxidizing materials. Store product in a closed container located in a dry area. Do not store in open, inadequate, or mislabeled packaging. Check that containers are clearly labeled. Use metal cans, metal drums, plastic, or lined fiber containers. Keep away from heat and flame.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Control Parameters:</b>	Under most handling conditions, this product will not generate mist or dust.
<b>Engineering Controls:</b>	In most conditions, no special local ventilation is needed. General ventilation recommended. If the product is heated above 150° C or atomized ventilation should be used.
<b>Personal protective equipment (PPE):</b>	
<b>Eyes:</b>	Safety glasses recommended.
<b>Skin:</b>	Impermeable gloves should be worn. Product is compatible with most elastomers.
<b>Inhalation:</b>	No respiratory protection required under most conditions. If concentrations exceed exposure limits, approved respiratory equipment must be used.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Solid. Liquid may separate from product.
<b>Color:</b>	White
<b>Odor:</b>	Nearly odorless
<b>Odor Threshold:</b>	Not available
<b>pH Value:</b>	Not applicable
<b>Melting Point:</b>	327° C
<b>Freezing Point:</b>	Becomes very stiff with decreasing temperature around -45° C.
<b>Initial boiling point:</b>	>300° C
<b>Flash point:</b>	>300°C COC (Base oil)
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable
<b>Explosion limit:</b>	Not available

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<b>Vapor pressure:</b>	Negligible at 20°C
<b>Vapor density:</b>	Not available
<b>Solubility:</b>	Insoluble in water at 20°C
<b>Partition coefficient:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Begins to decompose at 150°C.

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### SECTION 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under ambient temperatures and pressures.
<b>Possibility of hazardous reactions:</b>	May react with air under very high pressure. Otherwise will not react or polymerize.
<b>Conditions to avoid:</b>	No specific conditions to avoid have been identified.
<b>Materials to avoid:</b>	Oxidizers
<b>Hazardous decomposition products:</b>	Decomposes on heating and produces formaldehyde, silicone dioxide, and incompletely burned carbon compounds. At extreme elevated temperatures HF, perfluoroisobutylene, perfluorinated acid fluorides and other toxic vapors can be generated. Hydrogen Fluoride has an ACGH TLV of 3 ppm as fluoride as a Ceiling Limit and a OSHA PEL of 3ppm of fluoride as an eight hour TWA and 6 ppm as a Short Term Exposure Limit. The odor threshold for HF is 0.04 ppm, providing good warning properties for exposure.

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### SECTION 11. TOXICOLOGICAL INFORMATION

<b>Fluorosilicone:</b>	Ingestion LD50 (rat) > 2,000 mg/kg. Dermal LD50 (mouse) > 2,000 mg/kg
<b>Polytetrafluoroethylene:</b>	Ingestion LD50 (rat) > 10,000 mg/kg; Repeated dose No toxicologically significant effects were found.
<b>Acute Inhalation Toxicity:</b>	The thermal decomposition vapors of fluorinated polymers may cause polymer fume fever with flu-like

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symptoms in humans, especially when smoking contaminated tobacco.

: Skin irritation (rabbit) Not classified as irritant. No skin irritation. (human) Not classified as irritant. No skin irritation.

Sensitisation (human) Not a skin sensitizer. Does not cause skin sensitization. Patch test on human volunteers did not demonstrate sensitization properties.

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Not classifiable as a human carcinogen.

No toxicity to reproduction.

### SECTION 12. ECOLOGICAL INFORMATION

**Toxicity:**

**Polytetrafluoroethylene:** PTFE is a polymer and is not expected to produce toxic effects in fish.

**Persistence and degradability:** No data

**Bioaccumulative potential:** Not expected to bioaccumulate.

**Mobility in soil:** Siloxanes are removed from water by sedimentation or binding to sewage sludge. Zinc oxide is not mobile.

### SECTION 13. DISPOSAL PROCEDURES

**Waste treatment methods:** Waste (substance and container material) shall be recycled/recovered or disposed of as applicable and in accordance with community (EU) and local legislation. Recycle wherever possible. Consult state land waste management authority for disposal. Bury at an approved site. Recycle containers if possible, or dispose of in an authorized landfill. Incinerate only if incinerator is capable of scrubbing out hydrogen fluoride and other acidic combustion products.

**According to the European Waste Catalogue:** Waste Codes are not product specific but application specific. Waste Codes should be assigned by the user based on the application in which the product is used.

**For USA Disposal:** Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

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### SECTION 14. TRANSPORT INFORMATION

**Class or Type:** US DOT, IMO, ADR, RID, AND, IMDG, and IATA: Non-hazardous.

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### SECTION 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the mixture.**

**Other Information:**

**U.S. Regulatory Information**

TSCA Inventory Status: All ingredients listed or exempt.

TSCA 12 (b) Export Notification: Not listed

CERCLA Section 103 (40 CFR 302.4): N

SARA Section 302 (40 CFR 355.30): N

SARA Section 304 (40 CFR 355.40): N

SARA Section 313 (40 CFR 372.65): Zinc oxide

OSHA Process Safety (29 CFR 1910.119): N

SARA Hazard Categories, SARA Sections 311/312 (40 CFR 370.21) –

Acute Hazard: N

Chronic Hazard: N

Fire Hazard: N

Reactivity Hazard: N

Sudden Release Hazard: N

**State Regulations:** Not on California Proposition 65 list. Does not contain any contaminants or by-products known to the State of California to cause cancer or reproductive toxicity.

Chemical Inventories:

DSL (Canada) All ingredients listed or exempt.

ENCS/ISHL (Japan) All ingredients listed or exempt.

IECSC (Peoples Republic of China) All ingredients listed or exempt.

TSCA (United States of America) All ingredients listed or exempt.

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### SECTION 16. OTHER INFORMATION

NFPA Hazard Classification:

Health 2

Flammability: 1

Reactivity: 0

Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency personnel to address the hazards that are presented by short-term, acute exposure to material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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HMIS Hazard Classification:

Health 1  
Flammability: 1  
Reactivity: 0  
Special Hazards: B (See PPE Section)

Hazardous Material Identification System (HMIS) hazard ratings are designed to inform employees of chemical hazards in the workplace. The ratings are based on inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations...

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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