

# SAFETY DATA SHEET

## Valve Sealing Lubricant

Version: 2.5	Revision Date: 01/31/2023	MSDS Number: GHS-20005-10-VSL	Date Completed: 02/2023
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### SECTION 1. IDENTIFICATION

Product Name:	Valve Sealing Lubricant		
<b>Manufacturer or supplier's details</b>			
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		
<b>Recommended use of the chemical and restrictions on use</b>			
Recommended use:	Lubricants and lubricant additives		

### SECTION 2. HAZARDS IDENTIFICATION

<b>GHS Classification</b>	
Not a hazardous substance or mixture	
<b>GHS Label Element</b>	
Signal Word:	Not a hazardous substance or mixture (none)
Hazard Statements:	None
<b>Other Hazards</b>	
	None known
<b>Hazardous Ingredients</b>	

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture:	Mixture	
Substance name:	Silicone grease	
<b>Hazardous Ingredients:</b>		
<b>Chemical Name</b>	<b>CAS-No.</b>	<b>Concentration (%)</b>
Silicon dioxide	7631-86-9	>= 1- <= 10
Boric Acid	10043-35-3	>= .01- <= .20
Polydimethylsiloxanes	63148-62-9	>= 60- <= 95

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### SECTION 4. FIRST AID MEASURES

General advice:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt, seek medical advice.
If inhaled:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact:	Wash with water and soap. Get medical attention if symptoms occur. Wash clothing before reuse.
In case of eye contact:	If in eyes, rinse well with water. 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. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed:	None known. See Section 2 for more information.
Protection of first-aiders:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
Notes to physician:	Treat symptomatically and supportively.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media:	None known
Specific hazards during fire-fighting:	Exposure to combustion products may be a hazard to health.
Hazardous combustion products:	Carbon oxides Silicon oxides Formaldehyde Metal oxides
Specific extinguishing methods:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.

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	Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. 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. Section 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section
Local/Total ventilation:	Use only with adequate ventilation.
Advice on safe handling:	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage:	Keep in properly labeled containers. Store in accordance with the particular national regulations.

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<b>Materials to avoid:</b>	Do not store with the following product types: Strong oxidizing agents, acids, reducing agent
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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters/ Permissible concentration	Basis
Silicon dioxide	7631-86-9	TWA (dust)	20 million particles per cubic foot (silica)	OSHA Z-3
		TWA (dust)	80mg/m <sup>3</sup> /%SiO <sub>2</sub> (silica)	OSHA Z-3
			6mg/m <sup>3</sup> (silica)	NIOSH REL

<b>Engineering measures:</b>	Processing may form hazardous compounds (see section10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.
<b>Personal protective equipment</b>	
Respiratory protection:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknow, appropriate protection should be used.  Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.
Hand protection Material:	Wear protective gloves and clothing.
Remarks:	Wash hands before breaks and at the end of workday.
Eye protection:	Wear the following personal protective equipment: Safety goggles/glasses
Skin and body protection:	Select appropriate protective clothing based on chemical resistance data and an assessment of local exposure. Skin should be washed after contact. Breakthrough time is not determined for the product. Change gloves often. Clarify the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of the workday.
Hygiene measures:	Ensure that eye flushing systems and safety showers are located closed to the working place. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.

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	These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.
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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Grease
Color:	White, translucent
Odor:	slight
Odor Threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	Not applicable
Flash point:	>93 C / 199 F Method: closed cup
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not classified as a flammability hazard
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapor pressure:	Not applicable
Relative vapor density:	>1
Relative density:	1.03
Solubility./(ies) Water solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Autoignition temperature:	No data available
Thermal decomposition:	No data available

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Viscosity Viscosity, dynamic:	Not applicable
Explosive properties:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.
Molecular weight:	No data available

### SECTION 10. STABILITY AND REACTIVITY

:Reactivity:	Not classified as a reactivity hazard.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid:	Excessive heat
Incompatible materials:	Oxidizing agents, Acids, Reducing Agent
Hazardous decomposition products:	Formaldehyde, Carbon Oxides

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

##### Acute toxicity

POLYDIMETHYLSILOXANE Oral LD50 >17g/kg (rat), Dermal LD50 >2g/kg (rabbit)  
63148-62-9

##### Skin corrosion/irritation

Not classified based on available information.

##### Serious eye damage/irritation

Not classified based on available information.

##### Respiratory or skin sensitization

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: Not classified based on available information.

##### Germ cell mutagenicity

Not classified based on available information.

##### Carcinogenicity

Not classified based on available information.

##### Reproductive toxicity

Not classified based on available information.

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### STOT-single exposure

Not classified based on available information.

### Aspiration hazard

Not classified based on available information.

### Additional information

Information on likely routes of exposure

Skin contact

Ingestion

Eye contact

## SECTION 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	99.92% of mixture consists of component(s) of unknown hazards to the aquatic environment
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods</b>	
Resource Conservation and Recovery Act (RCRA)	This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.
Waste and 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.

## SECTION 14. TRANSPORT INFORMATION

<b>International Regulation</b> <b>UNRTDG</b>
Not regulated as a dangerous good

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<b>IATA-DGR</b>  Not regulated as a dangerous good
<b>IMDG-Code</b>  Not regulated as a dangerous good
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>  Not applicable for product as supplied.
<b>Domestic regulation</b> <b>49 CFR</b>  Not regulated as a dangerous good

### 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** : No SARA Hazards

**SARA 302** : No chemicals 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

##### PA Right To Know

Dimethyl siloxane, trimethylterminated	63148-62-9	70 - 90 %
Silicon dioxide	7631-86-9	5 - 15 %



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### New Jersey Right To Know

Dimethyl siloxane, trimethylterminated	63148-62-9	70 - 90 %
Silicon dioxide	7631-86-9	5 - 15 %

<b>California Prop 65</b>	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
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### The ingredients of this product are reported in the following inventories:

KECI	All ingredients listed, exempt or notified.
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
IECSC	All ingredients listed or exempt
ENCS/ISHL	All components are listed on ENCS/ISHL or exempted from inventory listing.
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).
NZIoC	All ingredients listed or exempt

### Inventories:

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

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### 16. OTHER INFORMATION

#### Further information

NFPA:

HMIS III:



HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0=Not Significant, 1=Slight, 2=Moderate, 3=High, 4= Extreme, \*=Chronic

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA : 8-hour, time-weighted average

DCC OEL / TWA : Time weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-3 / TWA : 8-hour time weighted average

US WEEL / TWA : 8-hr TWA

eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

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, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
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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.

US / Z8