

SAFETY DATA SHEET

VALVE SEALING LUBRICANT

Version: 2.3	Revision Date: 09/2015	MSDS Number: GHS-20005-10-VSL	Date Completed: 11/2015
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SECTION 1. IDENTIFICATION

Product Name: Valve Sealing Lubricant

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: Lubricants and lubricant additives

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification: Not a hazardous substance or mixture.

GHS Label element: Not a hazardous substance or mixture.

Other hazards: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Chemical nature: Silicone grease

Hazardous Ingredients

Chemical Name	CAS-No.	Concentration (% w/w)
Silicon dioxide	7631-86-9	>=5 - < 10

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.

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If swallowed: If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

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
Boron oxides

Specific extinguishing methods: 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.

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 for material 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

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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.

Sections 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. 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.
Materials to avoid:	Do not store with the following product types. Strong oxidizing agents.

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)	80 mg/m ³ / %SiO ₂ (Silica)	OSHA Z-3
		TWA	6 mg/m ³ (Silica)	NIOSH REL

Engineering measures: Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal Protective Equipment:
Respiratory protection: No personal respiratory protective equipment normally required.

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Hand protection:

Remarks: Wash hands before breaks and at the end of workday.

Eye protection: Wear the following personal protective equipment:
Safety glasses.

Skin and body protection: Skin should be washed after contact.

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.
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Grease
Color:	White, translucent
Odor:	None
Odor Threshold:	No data available
pH:	Not applicable
Melting Point/Freezing Point:	No data available
Initial Boiling Point and Boiling Range:	Not applicable
Flash Point:	>101.1°C 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:	No data available

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Relative Density:	1.1
Solubility(ies):	
Water solubility:	No data available
Partition coefficient	
n-octanol/water:	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available
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:	None known.
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	
Thermal decomposition:	Formaldehyde

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Skin contact
Ingestion
Eye contact

Acute toxicity:

Not classified based on available information.

Ingredients:

Silicon dioxide:

Acute oral toxicity: LD50 (Rat): > 3,300 mg/kg
Assessment: The substance or mixture has no acute oral toxicity.
Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity: LC50 (Rat): > 2.08 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity.
Remarks: Information taken from reference works and the literature.

Acute dermal toxicity: LD50 (Rabbit): > 5,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity.
Remarks: Information taken from reference works and the literature.

Skin corrosion/irritation:

Not classified based on available information.

Ingredients:

Silicon dioxide:

Result: No skin irritation.
Remarks: Information taken from reference works and the literature.

Serious eye damage/eye irritation

Not classified based on available information.

Ingredients:

Silicon dioxide:

Result: No eye irritation.
Remarks: Information taken from reference works and the literature.

Respiratory or skin sensitization

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Skin sensitization: Not classified based on available information.
Respiratory sensitization: Not classified based on available information.

Ingredients:

Silicon dioxide:

Assessment: Does not cause skin sensitization.

Test Type: Skin: test type not specified

Species: Guinea pig

Remarks: Information taken from reference works and the literature.

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

Silicon dioxide:

Genotoxicity in vitro:

Result: negative

Remarks: Information taken from reference works and the literature.

Genotoxicity in vivo:

Application Route: Ingestion

Result: negative

Remarks: Information taken from reference works and the literature.

Germ cell mutagenicity –

Assessment:

Animal testing did not show any mutagenic effects.

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.

STOT-single exposure

Not classified based on available information.

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STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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 from residues:

Dispose of in accordance with local regulations.

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulation**UNRTDG**

Not regulated as a danger good.

IATA-DGR

Not regulated as a danger good.

IMDG-Code

Not regulated as a danger good.

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

Not applicable for product as supplied.

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Domestic regulation

49 CFR

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 Substance 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

Pennsylvania Right To Know

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

New Jersey Right To Know

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

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:

NZIoC: 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.

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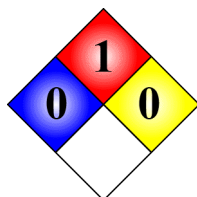
PICCS:	All ingredients listed or exempt.
KECI:	All ingredients listed, exempt or notified.
AICS:	All ingredients listed or exempt.
IECSC:	All ingredients listed or exempt.
ENCS/ISHL:	All components are listed on ENCS/ISHL or exempted from inventory listing.
DSL:	This product contains one or more substances which are not on the Canadian Domestic Substances List (DSL). Import of this product into Canada has volume limitations. For volume limits please consult JIT Silicones Plus.
TCSI:	All ingredients listed or exempt.

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SECTION 16. OTHER INFORMATION

Further Information:

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

Full text of other abbreviations:

NIOSH REL:	USA. NIOSH Recommended Exposure Limits
OSHA Z-3:	USA. Occupational Exposure Limits (OSHA) – Table Z-3 Mineral Dusts.
NIOSH REL / TWA:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek.

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OSHA Z-3 / TWA:	8-hour time weighted average.
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AICS – Australian Inventory of Chemical Substances; ASTM – American Society for the Testing of Materials; bw – Body weight; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; CRM – Carcinogen, Mutagen or Reproductive Toxicant; DIN – Standard of the German Institute for Standardisation; DOT – Department of Transportation; DSL – Domestic Substances List (Canada); ECx – Loading rate associated with x% response; EmS – Emergency Schedule; ENCS – Existing and New Chemical Substances (Japan); ErCx – Concentration associated with x% growth rate response; ERG – Emergency Response Guide; GHS – Globally Harmonized System; GLP – Good Laboratory Practice; HMIS – Hazardous Materials Identification System; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association; IBC – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 – Half maximal inhibitory concentration; ICAO – International Civil Aviation Organization; IECSC – Inventory of Existing Chemical Substances in China; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; ISHL – Industrial Safety and Health Law (Japan); ISO – International Organisation for Standardization; KECI – Korea Existing Chemicals Inventory; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL – International Convention for the Prevention of Pollution from Ships; MSHA – Mine Safety and Health Administration; n.o.s. – Not Otherwise Specified; NFPA – National Fire Protection Association; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No observed (Adverse) Effect Level; NOELR – No Observable Effect Loading Rate; NTP – National Toxicology Program; NZIoC – New Zealand Inventory of Chemicals; OECD – Organization for Economic Co-operation and Development, OPPTS – Office of Chemical Safety and Pollution Prevention; PBT – Persistent, Bioaccumulative and Toxic substance; PICCS – Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR – (Quantitative) Structure Activity Relationship; RCRA – Resource Conservation and Recovery Act; REACH – Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ – Reportable Quantity; SADT – Self-Accelerating Decomposition Temperature; SARA – Superfund Amendments and Reauthorization Act; SDS – Safety Data Sheet; TCSI – Taiwan Chemical Substance Inventory; TSCA – Toxic Substances Control Act (United States); UN – United Nations; UNRTDG – United Nations Recommendations on the Transport of Dangerous Goods; vPvB – Very Persistent and Very Bioaccumulative.

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: 09/24/2015

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.

US / Z8