

SAFETY DATA SHEET

LOW TEMP SILICONE GREASE – (Light Consistency)

Version: 1.0	Revision Date: 12/11/2014	MSDS Number: GHS-15033-LTGL	Date Completed: 02/2015
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SECTION 1. IDENTIFICATION

Product Name:	Low Temp Silicone Grease (Light Consistency)		
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	
Signal Word:	Not a hazardous substance or mixture (none)
Hazard Statements:	None
Other Hazards	
	None known
Hazardous Ingredients	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture:	Mixture	
Substance name:	Silicone grease	
Hazardous Ingredients:		
Chemical Name	CAS-No.	Concentration (%)
Lithium stearate	4485-12-5	>= 10- <= 20

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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.
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.
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

Suitable extinguishing media:	Water spray Alcohol-resistant form Dry chemical Carbon dioxide (CO ₂)
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:	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.

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Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.
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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. 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

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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
Lithium Stearate	4485-12-5	TWA	10 mg/m3	ACGIH

Engineering measures:	Processing may form hazardous compounds (see section10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.
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 work. 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.
Hand protection Material:	
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:	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

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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:	>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
Relative density:	1.1
Solubility./(ies) Water solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Utoignition temperature:	No data available
Autoignition temperature:	No data available
Thermal decomposition:	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

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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:	Benzene Formaldehyde

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SECTION 11. TOXICOLOGICAL INFORMATION

<p>Information on likely routes of exposure</p> <p>Skin contact Ingestion Eye contact</p> <p>Acute toxicity Not classified based on available information.</p>	
<p>Ingredients: Lithium Sterate: Acute oral toxicity:</p>	<p>LD50 (Rat): > 5,000 mg/kg</p>
<p>Acute dermal toxicity</p>	<p>LD50 (Rat) > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on data from similar materials</p>
<p>Skin corrosion/irritation Not classified based on available information.</p> <p>Ingredients: Lithium stearate: Species: Rabbit Result: No skin irritation Remarks: Based on data from similar materials</p>	
<p>Serious eye damage/eye irritation Not classified based on available information.</p> <p>Ingredients: Lithium stearage: Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405 Remarks: Based on data from similar materials</p>	
<p>Respiratory or skin sensitization Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information</p>	

Lithium stearate:
Test Type: Local lymph node assay (LLNA)

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Routes of exposure: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: negative

Germ cell mutagenicity

Not classified based on available information.

Lithium stearate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Ingredients:

Lithium stearate:

Species: Mouse

Application Route: Skin contact

Exposure time: 104 weeks

Result: negative

Remarks: Based on data from similar materials

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 carcinogen or potential carcinogen by NTP.
Reproductive toxicity Not classified based on available information.	
Ingredients:	
Lithium stearate:	
Effects on fertility	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Skin contact Result: negative Remarks: Based on data from similar materials

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Effects on fetal development	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Skin contact Result: negative Remarks: Based on data from similar materials
STOT-single exposure	Not classified based on available information.
TOT-repeated exposure	Not classified based on available information.
Repeated dose toxicity	
Ingredients: Lithium stearate:	Species: Rat NOAEL: 88-mg/kg Application Route: Ingestion Exposure time: 90 d Remarks: Based on data from similar materials.
	Species: Rat NOAEL: 1,089.75 mg/kg Application Route: Skin contact Exposure time: > 43 d Remarks: Based on data from similar materials.
Aspiration toxicity	Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Ingredients: Lithium stearate:	
Toxicity to fish:	LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction

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	Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to bacteria	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Persistence and degradability	
Ingredients: Lithium stearate:	
Biodegradability	Result: Readily biodegradable. Biodegradation: 78 % Exposure time: 28 d Method: OECD Test Guideline 301C Remarks: Based on data from similar materials
Bioaccumulative potential	
Ingredients: Lithium stearate:	
Bioaccumulation	Species: Fish Bioconcentration factor (BCF): 0.12 Remarks: Based on data from similar materials
Mobility in soil No data available	
Other adverse effects No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Resource Conservation and	This product has been evaluated for RCRA characteristics

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Recovery Act (RCRA)	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

International Regulation UNRTDG Not regulated as a dangerous good
IATA-DGR Not regulated as a dangerous good
IMDG-Code Not regulated as a dangerous good
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.
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 Substances Reportable Quantity

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

SARA 311/312 Hazards : No SARA Hazards

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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, phenylmethyl siloxane, trimethylterminated	63148-52-7	70 - 90 %
Lithium stearate	4485-12-5	10 - 20 %

New Jersey Right To Know

Dimethyl, phenylmethyl siloxane, trimethylterminated	63148-52-7	70 - 90 %
Lithium stearate	4485-12-5	10 – 20 %

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.
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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.

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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

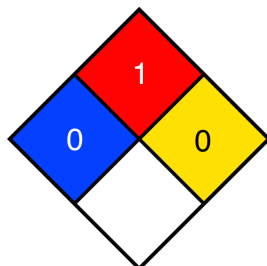
Inventories:

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

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

ACGIH :	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA:	8 hour, 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/

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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