

SAFETY DATA SHEET

LOW TEMP SILICONE GREASE – (Light Consistency - Pink)

| | | | |
|-----------------|------------------------------|---------------------------------|----------------------------|
| Version: 1.0 | Revision Date: 12/11/2014 | MSDS Number: GHS-15037-LTGLP | Date Completed: 02/2015 |
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SECTION 1. IDENTIFICATION

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|--|--|
| Product Name: | Low Temp Silicone Grease (Light Consistency - Pink) |
| 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

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| 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

| | |
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| 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

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| 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

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|------------------------------|---|
| 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 |

| | |
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| 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

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|-------------|--------|
| Appearance: | Grease |
| Color: | pink |

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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

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| :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

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

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

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| 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

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|---|--|
| 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

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|---------------------------|--|
| 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

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| 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 % |

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|---------------------------|---|
| 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:

| | |
|-----------|---|
| 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 |

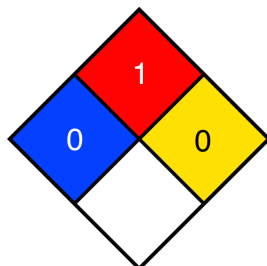
Inventories:

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