SAFETY DATA SHEET

Issuing Date 17-Mar-2015  Revision Date 14-Mar-2017  Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name 
JET-LUBE™ WHITE LITHIUM GREASE w/ PTFE

Other means of identification

Product Code(s) 503

Synonyms WHITE LITHIUM GREASE w/ PTFE

Recommended use of the chemical and restrictions on use

Recommended Use Lubricants, Greases and Release Products, Sealant

Uses advised against No information available

Supplier’s details

Manufacturer Address 
Jet-Lube, LLC
930 Whitmore Dr.
Rockwall, Texas 75087
TEL: 972-771-1000
Toll Free: 1-800-669-6318

Emergency telephone number

Emergency Telephone CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
Number 1-800-424-9300 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word None

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Off-white  Physical State Semi-fluid (gel).  Odor Petroleum Oil-Pungent

Precautionary Statements

Prevention
• None
### General Advice
- None

### Storage
- None

### Disposal
- None

#### Hazard Not Otherwise Classified (HNOC)
Not applicable

#### Other information
Toxic to aquatic life with long lasting effects

1.9% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Synonyms</th>
<th>WHITE LITHIUM GREASE w/ PTFE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemical Name</strong></td>
<td><strong>CAS-No</strong></td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures**

**Eye Contact**
Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**Skin Contact**
Wash skin with soap and water. If skin irritation persists, call a physician.

**Inhalation**
Move to fresh air.

**Ingestion**
Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**Most important symptoms/effects, acute and delayed**
No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media
Dry powder. Carbon dioxide (CO$_2$). Foam. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media
No information available.

#### Specific Hazards Arising from the Chemical
Burning produces obnoxious and toxic fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Heavy metal compounds. Halogenated compounds

**Explosion Data**
Sensitivity to Mechanical Impact  None.
Sensitivity to Static Discharge
None.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Use personal protective equipment.

Environmental Precautions
Prevent from entering into soil, ditches, sewers, waterways, and/or groundwater. Prevent product from entering drains. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological Information. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up
Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling
Wear personal protective equipment. Ensure adequate ventilation. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage
Keep container tightly closed in a dry and well-ventilated place.

Incompatible Products
Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide</td>
<td>STEL: 10 mg/m³ respirable fraction</td>
<td>TWA: 5 mg/m³ fume TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 5 mg/m³ fume (vacated) TWA: 10 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction (vacated) STEL: 5 mg/m³ fume</td>
<td>IDLH: 500 mg/m³ Ceiling: 15 mg/m³ dust TWA: 5 mg/m³ dust and fume STEL: 10 mg/m³ fume</td>
</tr>
<tr>
<td>1314-13-2</td>
<td>TWA: 2 mg/m³ respirable fraction</td>
<td>TWA: 5 mg/m³ fume TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 5 mg/m³ fume (vacated) TWA: 10 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction (vacated) STEL: 5 mg/m³ fume</td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust</td>
<td>IDLH: 5000 mg/m³</td>
</tr>
<tr>
<td>13463-67-7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Measures
Showers
Eyewash stations
Ventilation systems
Individual protection measures, such as personal protective equipment

Eye/Face Protection
Safety glasses with side-shields.

Skin and Body Protection
Lightweight protective clothing, Protective gloves.

Respiratory Protection
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Semi-fluid (gel)</th>
<th>Appearance</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Petroleum Oil-Pungent</td>
<td>Odor Threshold</td>
<td>Off-white</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Neutral</td>
<td>None known</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>190 °C / 374 °F</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>&gt; 316 °C / 600.8 °F</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 221 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air (°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>{upper flammability limit}</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>{lower flammability limit}</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.96</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble in water.</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Largely.</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammable Properties</td>
<td>Not flammable</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.
Conditions to avoid

Incompatible products.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

- Inhalation: None known.
- Eye Contact: None known.
- Skin Contact: None known.
- Ingestion: Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td>-</td>
<td>&gt; 6820 mg/m³</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms: No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization: No information available.

Mutagenic Effects: No information available.

Carcinogenicity: This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td></td>
<td>Group 2B</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

IARC: (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans

OSHA: (Occupational Safety & Health Administration)
X - Present

Reproductive Toxicity: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Aspiration Hazard: No information available.

Numerical measures of toxicity - Product

Acute Toxicity: 1.9% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral: 2545 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide 1314-13-2</td>
<td>Selenastrum capricornutum 72-hour EC50: 0.14 mg/l</td>
<td>Oncorhynchus mykiss 96-hour LC50: 0.14 mg/l</td>
<td>Daphnia magna 48-hour EC50: 0.07 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available.

Bioaccumulation
No information available.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Dispose of in accordance with federal, state, and local regulations

Contaminated Packaging
Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT
Subsidiary Class
Not regulated

ICAO

UN-Number
UN3082
Proper shipping name
Environmentally hazardous substance, liquid, n.o.s.
Hazard Class
9
Packing Group
III
Description
UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc oxide), 9, PG III

IATA

UN-Number
UN3082
Proper Shipping Name
Environmentally hazardous substance, liquid, n.o.s.
Hazard Class
9
Packing Group
III
ERG Code
9L
Description
UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc oxide), 9, PG III

IMDG/IMO

UN-Number
UN3082
Proper Shipping Name
Environmentally hazardous substance, liquid, n.o.s.
Hazard Class
9
Packing Group
III
EmS No.
F-A, S-F
Description
UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc oxide), 9, PG III, Marine Pollutant

RID

UN-Number
UN3082
Proper Shipping Name
Environmentally hazardous substance, liquid, n.o.s.
Hazard Class
9
Packing Group
III
Classification Code
M6
Description
UN3082 Environmentally hazardous substance, liquid, n.o.s. (Zinc oxide), 9, III

ADR

UN-Number
UN3082
Proper Shipping Name
Environmentally hazardous substance, liquid, n.o.s.
Hazard Class
9
Packing Group            III
Classification Code     M6
Tunnel Restriction Code  (E)
Description             UN3082 Environmentally hazardous substance, liquid, n.o.s. (Zinc oxide), 9, III (E)

ADN
UN-No                  UN3082
Proper Shipping Name   Environmentally hazardous substance, liquid, n.o.s.
Hazard Class           9
Packing Group          III
Classification Code    M6
Special Provisions     274, 335, 601
Description            UN3082 Environmentally hazardous substance, liquid, n.o.s. (Zinc oxide), 9, III
Hazard Labels          9
Limited Quantity       LQ7

15. REGULATORY INFORMATION

International Inventories

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations. Part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>5-10</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
Acute Health Hazard  No
Chronic Health Hazard No
Fire Hazard          No
Sudden Release of Pressure Hazard No
Reactive Hazard      No

Clean Water Act
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
**Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts**

<table>
<thead>
<tr>
<th></th>
<th>X</th>
<th></th>
<th>X</th>
</tr>
</thead>
</table>

**Titanium dioxide**

<table>
<thead>
<tr>
<th></th>
<th>X</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
</table>

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard 1</th>
<th>Flammability 1</th>
<th>Instability 0</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health Hazard 1</td>
<td>Flammability 1</td>
<td>Physical Hazard 0</td>
<td>Personal Protection X</td>
</tr>
</tbody>
</table>

**Prepared By**
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

**Issuing Date**
17-Mar-2015

**Revision Date**
14-Mar-2017

**Revision Note**
Updated company information.

**General Disclaimer**
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

*End of Safety Data Sheet*