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# SAFETY DATA SHEET

Issuing Date 30-Mar-2015

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Revision Number 0

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

### GHS product identifier

Product Name JET-LUBE<sup>®</sup> WHITE LITHIUM GREASE AEROSOL

### Other means of identification

Product Code(s) 50341

UN-Number UN1950

Synonyms WHITE LITHIUM GREASE AEROSOL

### 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, Inc.

4849 Homestead Rd.

Suite 232

Houston, Texas 77028

TEL: 713-670-5700 (7:00 a.m. - 5:00 p.m.)

### 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 considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Specific Target Organ Toxicity (Repeated Exposure)	Category 1
Aspiration Toxicity	Category 1
Flammable aerosols	Category 1
Gases under pressure	Compressed gas

### GHS Label elements, including precautionary statements

### Emergency Overview

Signal Word Danger

**Hazard Statements**

- Causes damage to organs through prolonged or repeated exposure
- May be fatal if swallowed and enters airways
- 
- Extremely flammable aerosol
- Contains gas under pressure; may explode if heated

**Appearance** Off white**Physical State** Aerosol.**Odor** Petroleum Oil-Pungent**Precautionary Statements****Prevention**

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Do not spray on an open flame or other ignition source• Pressurized container: Do not pierce or burn, even after use.

**General Advice**

- Get medical attention/advice if you feel unwell

**Ingestion**

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.

**Storage**

- Store locked up.
- Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
- Protect from sunlight. Store in a well-ventilated place

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Toxic to aquatic life with long lasting effects

0.7% of the mixture consists of ingredient(s) of unknown toxicity.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Synonyms**

WHITE LITHIUM GREASE AEROSOL

Chemical Name	CAS-No	Weight %	Trade secret
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	35-45	*
Petroleum distillates	68476-85-7	20-25	*
Zinc oxide	1314-13-2	2-2.5	*
Titanium dioxide	13463-67-7	0-1	*

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

#### 4. FIRST AID MEASURES

##### Description of necessary first-aid measures

<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
<b>Skin Contact</b>	In case of contact with liquefied gas, thaw frosted parts with lukewarm water. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Not an expected route of exposure. Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed - can enter lungs and cause damage. Consult a physician if necessary
<b>Protection of First-aiders</b>	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

##### Most important symptoms/effects, acute and delayed

**Most Important Symptoms/Effects** Aspiration into lungs can produce severe lung damage

##### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Move containers from fire area if you can do it without risk.

**Unsuitable Extinguishing Media** No information available.

##### Specific Hazards Arising from the Chemical

Ruptured cylinders may rocket. Containers may explode when heated.

##### Explosion Data

**Sensitivity to Mechanical Impact** None. **Sensitivity to Static**

**Discharge** Yes.

##### 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** Contents under pressure. In case of rupture: Remove all sources of ignition. Ensure adequate ventilation. Do not breathe vapors or spray mist. Use personal protective equipment. Avoid contact with skin, eyes and inhalation of vapors.

##### Environmental Precautions

**Environmental Precautions** Prevent from entering into soil, ditches, sewers, waterways, and/ or groundwater. See Section 12 for additional Ecological Information.

##### Methods and materials for containment and cleaning up

**Methods for Containment** If possible, turn leaking containers so that gas escapes rather than liquid.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers. In case of rupture: Take up with inert, damp, noncombustible material using clean non-sparking tools and place into loosely plastic containers for later disposal

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Keep away from open flames, hot surfaces and sources of ignition. In case of rupture: Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Take precautionary measures against static discharges. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep away from direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible Products** Strong acids. Amines. Oxidizing agents. Alkaline materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates 68476-85-7	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>
Zinc oxide 1314-13-2	STEL: 10 mg/m <sup>3</sup> respirable fraction TWA: 2 mg/m <sup>3</sup> respirable fraction	TWA: 5 mg/m <sup>3</sup> fume TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> fume (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) STEL: 10 mg/m <sup>3</sup> fume	IDLH: 500 mg/m <sup>3</sup> Ceiling: 15 mg/m <sup>3</sup> dust TWA: 5 mg/m <sup>3</sup> dust and fume STEL: 10 mg/m <sup>3</sup> fume
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>

### 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** Antistatic boots. Wear fire/flammable resistant/retardant clothing. Impervious gloves. Long sleeved clothing. Chemical resistant apron.

**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

<b>Physical State</b>	Aerosol	<b>Appearance</b>	Off white	<b>Odor Threshold</b>	No
<b>Odor</b>	Petroleum Oil-Pungent	information available			

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	Neutral	None known
Melting Point/Range	190 °C / 374 °F	None known
Boiling Point/Boiling Range	> 316 °C / 600.8 °F	None known
Flash Point	< 18 °C	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Specific Gravity	0.90	None known
Water Solubility	Insoluble	None known
Solubility in other solvents	Largely.	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
No data available	<b>Viscosity</b>	None known
		None known

**Flammable Properties**                      Not flammable

**Explosive Properties**                      No data available

**Oxidizing Properties**                      No data available

### Other information

<b>VOC Content (%)</b>	No data available
<b>VOC (g/l)</b>	546 g/liter with propellant & solvent or <70%

## 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

Heat, flames and sparks. Keep away from direct sunlight. Do not puncture or incinerate cans. Incompatible products.

### Incompatible materials

Strong acids. Amines. Oxidizing agents. Alkaline materials.

### Hazardous decomposition products

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

**Inhalation** Vapors may irritate throat and respiratory system.  
**Eye Contact** Contact with eyes may cause irritation.  
**Skin Contact** None known.  
**Ingestion** Not an expected route of exposure. Potential for aspiration if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Solvent naphtha (petroleum), medium aliphatic	> 5000 mg/kg ( Rat )	= 3000 mg/kg ( Rabbit )	> 5.28 mg/L ( Rat ) 4 h
Zinc oxide	> 5000 mg/kg ( Rat )	-	-
Titanium dioxide	> 10000 mg/kg ( Rat )	-	> 6820 mg/m <sup>3</sup>

**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** The table below indicates whether each agency has listed any ingredient as a carcinogen.

This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X

**IARC: (International Agency for Research on Cancer)**

Group 2B - Possibly carcinogenic to Humans **al Safety**

**OSHA: (Occupation , Health Administration)**

X - Present

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Aspiration Hazard** No information available.

**Numerical measures of toxicity - Product**

**Acute Toxicity** 0.7% 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** 4593 mg/kg; Acute toxicity estimate  
**LD50 Dermal** 7500 mg/kg; Acute toxicity estimate

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Solvent naphtha (petroleum), medium aliphatic 64742-88-7	EC50 96 h: = 450 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 800 mg/L static (Pimephales promelas)		EC50 48 h: > 100 mg/L (Daphnia magna)
Zinc oxide 1314-13-2	Selenastrum capricornutum 72-hour EC50: 0.14 mg/l	Oncorhynchus mykiss 96-hour LC50: 0.14 mg/l		Daphnia magna 48-hour EC50: 0.07 mg/l

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

Chemical Name	Log Pow
Petroleum distillates	2.8

**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**

**UN-Number** UN1950  
**Proper shipping name** Aerosols  
**Hazard Class** 2.1  
**Description** UN1950, Aerosols, 2.1  
**Emergency Response Guide** 126

**Number**

**TDG**

**UN-Number** UN1950  
**Proper Shipping Name** Aerosols  
**Hazard Class** 2.1  
**Description** UN1950, Aerosols, 2.1

**MEX**

**UN-Number** UN1950  
**Proper Shipping Name** Aerosols  
**Hazard Class** 2.1  
**Description** UN1950, Aerosols, 2.1

**ICAO**

**UN-Number** UN1950  
**Proper shipping name** Aerosols

<b>Hazard Class</b>	2.1
<b>Description</b>	UN1950, Aerosols, 2.1

**IATA**

<b>UN-Number</b>	UN1950
<b>Proper Shipping Name</b>	Aerosols, flammable
<b>Hazard Class</b>	2.1
<b>ERG Code</b>	10L
<b>Description</b>	UN1950, Aerosols, flammable, 2.1

**IMDG/IMO**

<b>UN-Number</b>	UN1950
<b>Proper Shipping Name</b>	Aerosols
<b>Hazard Class</b>	2
<b>Subsidiary Class</b>	See SP63
<b>EmS No.</b>	F-D, S-U
<b>Description</b>	UN1950, Aerosols, 2.1 (See SP63), (18°C c.c.)

**RID**

<b>UN-Number</b>	UN1950
<b>Proper Shipping Name</b>	Aerosols
<b>Hazard Class</b>	2
<b>Classification Code</b>	5F
<b>Description</b>	UN1950, Aerosols, 2.1

**ADR**

<b>UN-Number</b>	UN1950
<b>Proper Shipping Name</b>	Aerosols
<b>Hazard Class</b>	2
<b>Classification Code</b>	5F
<b>Tunnel Restriction Code</b>	(D)
<b>Description</b>	UN1950, Aerosols, 2.1, (D)

**ADN**

<b>Proper Shipping Name</b>	Aerosols
<b>Hazard Class</b>	2
<b>Classification Code</b>	5F
<b>Special Provisions</b>	190, 327, 344, 625
<b>Description</b>	UN1950, Aerosols, 2.1
<b>Limited Quantity</b>	1 L



Ventilation VE01, VE04

**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:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Zinc oxide	1314-13-2	2-2.5	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard Yes

Chronic Health Hazard Yes

Fire Hazard Yes

Sudden Release of Pressure Hazard Yes

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):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc oxide		X		

**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 contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Titanium dioxide	13463-67-7	Carcinogen

**U.S. State Right-to-Know Regulations**

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Solvent naphtha (petroleum), medium aliphatic	X				
Petroleum distillates	X	X	X		X
Zinc oxide	X	X	X		
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	X		X		

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazard</b> 2	<b>Flammability</b> 4	<b>Instability</b> 0	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	<b>Health Hazard</b> 2*	<b>Flammability</b> 4	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

*\*Indicates a chronic health hazard.*

**Prepared By** Product Stewardship  
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**Revision Note** Initial Release.

**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**