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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) 503
Product Name JET-LUBE® WHITE LITHIUM GREASE w/ PTFE
Chemical name
Synonyms WHITE LITHIUM GREASE w/ PTFE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Sealant. Lubricants, Greases and Release Products.
Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Importer	Manufacturer
Jet-Lube (UK) Ltd	Jet Lube, LLC
Jet-Lube House	930 Whitmore Drive
Reform Road, Maidenhead	Rockwall, Texas USA 75087
Berkshire UK	TEL: +1-713-670-5700 (8am-5pm CST)
SL6 8BY	
TEL: 44 1628-631913 (8:00 a.m. - 5:00p.m. GMT)	

For further information, please contact.

Responsible Persons	Regulatory Affairs Manager - Thomas Hansen
E-mail Address	thomas.hansen@jetlubecanada.com
Non-Emergency Telephone Number	+1-780-463-7441 (JL Canada) +1-972-771-1000 (USA Office) +44-1628-631913 (JL UK Office)

1.4. Emergency telephone number

Emergency Telephone Number 44 1628-631913

Emergency telephone §45 - (EC)1272/2008

Europe	112
Austria	Poison Information Center (AT): +43-(0)1-406 43 43
Belgium	Poison Center (BE): +32 70 245 245
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Finland	Poison Information Centre (FI): +358 9 471 977
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790 (24 h service, Advice in German and English)
Ireland	National Poisons Information Centre (IE): +353 1 8379964
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Poisons Information (NO): + 47 22 591300
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
Portugal	Poison Information Center (PT): +351 21 330 3284
Spain	Poison Information Service (ES): +34 91 562 04 20
Sweden	Poisons Information Center (SV): +46 8 33 12 31
Switzerland	Poison Center (CH): Tel 145: +41 44 251 51 51
United Kingdom	NHS Direct (UK): +44 0845 46 47

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Chronic aquatic toxicity	Category 2 - (H411)
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2.2. Label elements



Signal word **None**

Hazard Statements

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical name	EC No	CAS-No	Percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc.	278-011-7	74869-21-9	80-90	No data available	
Zinc oxide	215-222-5	1314-13-2	5-10	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	272-028-3	68649-42-3	1-2	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	
Titanium dioxide	236-675-5	13463-67-7	1-2	No data available	01-2119489379-17-XXXX

Full text of H- and EUH-phrases: see section 16

Note

The producer of "74869-21-9" declares that it contains less than 3% DMSO extractable material by IP-346 The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. This note applies only to certain complex oil derived substances in Annex I

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous Combustion Products

Carbon oxides.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Other Information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Should not be released into the environment. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

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

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.



Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

Chemical name	EU	United Kingdom	France	Spain	Germany
Zinc oxide 1314-13-2	-	-	TWA: 5 mg/m ³ TWA: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³	-
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Zinc oxide 1314-13-2	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³	-	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 4 mg/m ³
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³ Carc*	TWA: 10 mg/m ³ Carc*	-	-	TWA: 6 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Zinc oxide 1314-13-2	TWA: 5 mg/m ³	STEL: 3 mg/m ³ TWA: 3 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³
Titanium dioxide 13463-67-7	STEL: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 3 mg/m ³	TWA: 10.0 mg/m ³ STEL: 30 mg/m ³	TWA: 5 mg/m ³ STEL: 5 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls



Personal protective equipment

Eye/face protection Tight sealing safety goggles.
Hand Protection Wear suitable gloves.
Skin and body protection Wear suitable protective clothing.

Environmental exposure controls No information available.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Semi-Solid
Appearance White to light yellow
Odor Petroleum
Color No information available
Odor Threshold Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	7		
Melting / freezing point	190 °C	None known	
Boiling point / boiling range	316 °C		
Flash Point	> 221 °C		
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air		None known	
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	
Relative density	0.96		
Water Solubility	Insoluble		
Solubility(ies)	No data available	None known	
Partition coefficient: n-octanol/water	Not Available		
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Viscosity	No data available	None known	

9.2. Other information

Softening Point No information available
Molecular Weight No information available
VOC Content (%) None
Liquid Density No information available
Bulk Density No information available
Particle Size No information available
Particle Size Distribution No information available

Section 10: Stability and reactivity

10.1. Reactivity



Unknown acute toxicity

- 99.4 % of the mixture consists of ingredient(s) of unknown toxicity
- 9.8 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 99.4 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 99.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 99.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 99.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc.	= 2280 mg/kg (Rat)	-	-
Zinc oxide	> 5000 mg/kg (Rat)	-	-
Titanium dioxide	> 10000 mg/kg (Rat)	-	> 6820 mg/m ³

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects. .



Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc.	>1001 mg/l	96h LC50: > 2000 mg/L (Salmo gairdneri)	-	-
Zinc oxide	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
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	-	LC50 96 h: 1.0 - 5.0 mg/L static (Pimephales promelas) LC50 96 h: 10.0 - 35.0 mg/L semi-static (Pimephales promelas)	-	EC50 48 h: 1 - 1.5 mg/L (Daphnia magna)

12.2. Persistence and degradability

Persistence and Degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
Zinc oxide	
Titanium dioxide	

12.6. Other adverse effects

Other adverse effects No information available.

Section 13: Disposal considerations

13.1. Waste treatment methods



Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	No information available.

Section 14: Transport information

IMDG/IMO

14.1 UN-No.	UN3082
14.2 Proper Shipping Name Description	Environmentally hazardous substance, liquid, n.o.s. UN3082, Environmentally hazardous substance, liquid, n.o.s.(Zinc oxide, Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts),9,PG III,Marine Pollutant
14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Marine Pollutant	Not applicable
14.6 Special Provisions EmS-No.	None F-A, S-F
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

RID

14.1 UN-No.	UN3082
14.2 Proper Shipping Name Description	Environmentally hazardous substance, liquid, n.o.s. UN3082 Environmentally hazardous substance, liquid, n.o.s.(Zinc oxide, Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts),9,III
14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Environmental hazard	Not applicable
14.6 Special Provisions Classification code	None M6

ADR

14.1 UN-No.	UN3082
14.2 Proper Shipping Name Description	Environmentally hazardous substance, liquid, n.o.s. UN3082 Environmentally hazardous substance, liquid, n.o.s.(Zinc oxide, Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts),9,III(E)
14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Environmental hazard	Not applicable
14.6 Special Provisions Classification code Tunnel restriction code	None M6 (E)

IATA

14.1 UN-No.	UN3082
14.2 Proper Shipping Name Description	Environmentally hazardous substance, liquid, n.o.s. UN3082,Environmentally hazardous substance, liquid, n.o.s.(Zinc oxide, Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts),9,PG III
14.3 Hazard Class	9
14.4 Packing Group	III



14.5 Environmental hazard Not applicable
14.6 Special Provisions None

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc. - 74869-21-9	Use restricted. See item 28.	

Persistent Organic Pollutants

Not applicable.

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

International Inventories

TSCA Contact supplier for inventory compliance status.
DSL/NDSL Complies.
EINECS/ELINCS Complies.
ENCS Not determined.
IECSC Contact supplier for inventory compliance status.
KECL Not determined.
PICCS Complies.
AICS Not determined.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances



IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available.

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under sections 2 and 3

H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation

Key literature references and sources for data

www.ChemADVISOR.com/

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This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.

Disclaimer

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End of Safety Data Sheet