

Issuing Date 19-Feb-2016

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Revision Number 0

## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Code(s) 114

Product Name Jet-Lube Extreme®

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

Recommended Use Lubricants, Greases and Release Products

Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

#### Importer

Jet-Lube (UK) Ltd  
Jet-Lube House  
Reform Road  
Maidenhead  
Berkshire UK  
SL6 8BY  
TEL: 44 1628-631913 (8:00 a.m. - 5:00 p.m.)

#### Company

Jet-Lube, Inc.  
930 Whitmore Dr.  
Rockwall, Texas 75087  
TEL: 713-670-5700 (7:00 a.m. - 5 p.m.)

### For further information, please contact

E-mail Address doldiges@jetlube.com

### 1.4. Emergency telephone number

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

Europe	112
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## Section 2. Hazards identification

### 2.1. - Classification of the substance or mixture

#### REGULATION (EC) No 1272/2008

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

#### Physical Hazards

None

### 2.2. Label Elements



Signal Word

Warning

**Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

**Precautionary Statements**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/ attention

P362 - Take off contaminated clothing and wash before reuse

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

**2.3. Other information**

None known

**Section 3. Composition/information on ingredients****3.1. Substances****3.2. Mixtures**

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
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	50-70	Carc. 1B (H350)	No data available
Graphite	231-955-3	7782-42-5	10-15		No data available
Copper	231-159-6	7440-50-8	8-13	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Talc	238-877-9	14807-96-6	1-5		No data available
Limestone	215-279-6	1317-65-3	1-5		No data available
Molybdenum (IV) sulfide	215-263-9	1317-33-5	1-5		No data available

**For the full text of the H-Statements mentioned in this Section, see Section 16****Note**

The full refining history is known for this product and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil derived substances in Annex I.

**Section 4. First aid measures****4.1. Description of first-aid measures****Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Skin Contact**

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**Ingestion**

Drink plenty of water. Do not induce vomiting without medical advice. Clean mouth with water and afterwards drink plenty of water. If symptoms persist, call a physician.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

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

**Most Important Symptoms/Effects** Eye irritation/reactions. Skin irritation.

#### **4.3. Indication of immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

### **Section 5. Fire-fighting measures**

#### **5.1. Extinguishing media**

##### **Suitable Extinguishing Media**

Water spray. Foam. Carbon dioxide (CO<sub>2</sub>). Dry powder. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Extinguishing media which must not be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire.

#### **5.2. Special hazards arising from the substance or mixture**

##### **Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Burning produces obnoxious and toxic fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Heavy metal compounds.

#### **5.3. Advice for firefighters**

##### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

### **Section 6. Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

#### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. See Section 12 for additional Ecological Information.

#### **6.3. Methods and materials for containment and cleaning up**

Prevent further leakage or spillage if safe to do so.

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

#### **6.4. Reference to other sections**

See Section 12 for additional information.

### **Section 7. Handling and storage**

#### **7.1. Precautions for Safe Handling**

##### **Handling**

Wear personal protective equipment. Ensure adequate ventilation.

##### **Hygiene Measures**

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

#### **7.2. Conditions for safe storage, including any incompatibilities**

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

### 7.3. Specific end use(s)

#### Exposure Scenario

No information available.

#### Other Guidelines

No information available.

## Section 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Graphite 7782-42-5		STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>	VME: 2 mg/m <sup>3</sup>	VLA-ED: 2 mg/m <sup>3</sup>	MAK: 1.5 mg/m <sup>3</sup> MAK: 4 mg/m <sup>3</sup>
Copper 7440-50-8		STEL: 0.6 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	VME: 0.2 mg/m <sup>3</sup> VME: 1 mg/m <sup>3</sup> VLCT: 2 mg/m <sup>3</sup>	VLA-ED: 0.2 mg/m <sup>3</sup> VLA-ED: 1 mg/m <sup>3</sup>	MAK: 0.1 mg/m <sup>3</sup> Ceiling / Peak: 0.2 mg/m <sup>3</sup>
Talc 14807-96-6		STEL: 3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>		TWA: 2 mg/m <sup>3</sup>	
Limestone 1317-65-3		STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>			
Molybdenum (IV) sulfide 1317-33-5		TWA: 10 mg/m <sup>3</sup>		VLA-ED: 10 mg/m <sup>3</sup> VLA-ED: 3 mg/m <sup>3</sup>	
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Graphite 7782-42-5 ( 10-15 )		TWA: 2 mg/m <sup>3</sup>		TWA: 2 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>
Copper 7440-50-8 ( 8-13 )		TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>
Talc 14807-96-6 ( 1-5 )		TWA: 2 mg/m <sup>3</sup>	TWA: 0.25 mg/m <sup>3</sup>	TWA: 0.5 fiber/cm <sup>3</sup> STEL: 2 ppm STEL: 1 ppm	TWA: 0.3 fiber/cm <sup>3</sup>
Molybdenum (IV) sulfide 1317-33-5 ( 1-5 )		TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>			TWA: 10 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Graphite 7782-42-5	STEL 10 mg/m <sup>3</sup> MAK: 5 mg/m <sup>3</sup>	MAK: 2.5 mg/m <sup>3</sup> MAK: 5 mg/m <sup>3</sup>	NDS: 4.0 mg/m <sup>3</sup> NDS: 1.0 mg/m <sup>3</sup> NDS: 6.0 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup> STEL: 8 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
Copper 7440-50-8	STEL 4 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup> MAK: 1 mg/m <sup>3</sup> MAK: 0.1 mg/m <sup>3</sup>	STEL: 0.2 mg/m <sup>3</sup> MAK: 0.1 mg/m <sup>3</sup>	NDS: 0.2 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>
Talc 14807-96-6	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 4.0 mg/m <sup>3</sup> TWA: 1.0 mg/m <sup>3</sup>	TWA: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 0.8 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 2.4 mg/m <sup>3</sup>
Limestone 1317-65-3		MAK: 3 mg/m <sup>3</sup>			TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
Molybdenum (IV) sulfide 1317-33-5	STEL 20 mg/m <sup>3</sup> MAK: 10 mg/m <sup>3</sup>	MAK: 10 mg/m <sup>3</sup>	NDSCh: 10 mg/m <sup>3</sup> NDS: 4 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>

Derived No Effect Level No information available.

Predicted No Effect Concentration (PNEC) No information available.

## 8.2. Exposure controls

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal protective equipment</b>	
<b>Eye Protection</b>	Safety glasses with side-shields. Risk of contact: Goggles
<b>Skin and Body Protection</b>	Impervious clothing.
<b>Hand Protection</b>	Impervious gloves.
<b>Respiratory Protection</b>	None required under normal usage. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Environmental Exposure Controls** Local authorities should be advised if significant spillages cannot be contained. Do not allow material to contaminate ground water system. Prevent product from entering drains.

## Section 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Gel	<b>Appearance</b>	Copper, Bronze
<b>Odor</b>	Petroleum like		

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	Neutral	None known
Melting Point/Range	> 315 °C	None known
Boiling Point/Boiling Range	< 316 °C	None known
Flash Point	> 310 °C	Open cup
Evaporation rate	No data available	None known
Flammability (solid, gas)	Not flammable.	None known
Vapor Pressure	<0.01 kPa @ 20°C	None known
Vapor Density	>5 (air = 1)	None known
Relative Density	1.17	None known
Water Solubility	Insoluble in water.	None known
Solubility in other solvents	Soluble	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	>315 °C / >500 °F	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known
Explosive Properties	No data available	
Oxidizing Properties	No data available	

### 9.2. Other information

<b>VOC Content (%)</b>	None
<b>Flammability Limits in Air</b>	No data available
<b>Upper</b>	7%
<b>Lower</b>	0.9%

## Section 10. Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

**10.4. Conditions to avoid**

Incompatible products.

**10.5. Incompatible materials**

Strong oxidizing agents. Acetylene. Vinyl compounds.

**10.6. Hazardous decomposition products**

None under normal use.

## Section 11. Toxicological information

**11.1. Information on toxicological effects****Acute Toxicity****Product Information****Inhalation**

None known.

**Eye Contact**

Causes serious eye irritation.

**Skin Contact**

Causes skin irritation.

**Ingestion**

Not an expected route of exposure. May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
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 )		
Molybdenum (IV) sulfide			> 2820 mg/m <sup>3</sup> ( Rat ) 4 h

**Sensitization**

No information available.

**Mutagenic Effects**

No information available.

**Carcinogenic Effects**

The full refining history is known for this product and it can be shown that the substance from which it is produced is not a carcinogen.

**Reproductive Toxicity**

No information available.

**Developmental 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 Effects**

May cause long-term adverse effects in the aquatic environment. Lc50/48h/Acartia tonsa = >1000 mg/L. EC50/72h/Skeletonema costatum = >1000 mg/L. LC50/96h/Scophthalmus maximus = >1000 mg/L. Aquatic toxicity is unlikely due to low solubility. Sea sediment LC50/10d/Corophium sp. = 925 - 3502 mg/kg.

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	LC50 96 h: > 2000 mg/L (Salmo gairdneri)		
Copper	EC50 96 h: 0.031 - 0.054 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: 0.0426 - 0.0535 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 0.0068 - 0.0156 mg/L (Pimephales promelas) LC50 96 h: < 0.3 mg/L static (Pimephales promelas) LC50 96 h: = 0.052 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 0.112 mg/L flow-through (Poecilia reticulata) LC50 96 h: = 0.2 mg/L flow-through (Pimephales promelas) LC50 96 h: = 0.3 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 0.8 mg/L static (Cyprinus carpio) LC50 96 h: = 1.25 mg/L static (Lepomis macrochirus)	-	EC50 48 h: = 0.03 mg/L Static (Daphnia magna)
Talc		LC50 96 h: > 100 g/L semi-static (Brachydanio rerio)		
<b>Chemical Name</b>	<b>Toxicity to algae</b>	<b>Toxicity to fish</b>	<b>Toxicity to microorganisms</b>	<b>Toxicity to aquatic invertebrates</b>
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.	EC50 >1001 mg/l	LC50 >1000 mg/l		LC50 = 247.2 mg/l

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

Adsorbs on soil.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

This product does not contain any known or suspected endocrine disruptors.

## Section 13. Disposal considerations

**13.1. Waste treatment methods**

<b>Waste from Residues / Unused Products</b>	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Other Information</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14. Transport information****IMDG/IMO**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>Description</b>	Not applicable.
<b>14.5. Marine Pollutant</b>	None.
<b>14.6. Special Provisions</b>	None.
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available.

**RID**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>Description</b>	Not applicable.
<b>14.5. Environmental hazard</b>	None.
<b>14.6. Special Provisions</b>	None.

**ADR**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>Description</b>	Not applicable.
<b>14.5. Environmental hazard</b>	None.
<b>14.6. Special Provisions</b>	None.

**ICAO**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper shipping name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>Description</b>	Not applicable.
<b>14.5. Environmental hazard</b>	None.
<b>14.6. Special Provisions</b>	None.

**IATA**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>Description</b>	Not applicable.
<b>14.5. Environmental hazard</b>	None.



14.6. Special Provisions None.

## Section 15. Regulatory information

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

**WGK Classification** Water endangering class = 1

#### International Inventories

<b>TSCA</b>	Not determined
<b>EINECS/ELINCS</b>	Complies
<b>DSL/NDSL</b>	Not determined
<b>PICCS</b>	Complies
<b>ENCS</b>	Not determined
<b>IECSC</b>	Complies
<b>AICS</b>	Not determined
<b>KECL</b>	Not determined

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

### 15.2. Chemical Safety Assessment

No information available

## Section 16. Other information

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

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H350 - May cause cancer

#### Key literature references and sources for data

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

**Issuing Date** 19-Feb-2016

**Revision Date** 19-Feb-2016

**Revision Note** Initial Release.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006

#### 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.

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End of Safety Data Sheet