



1937 Mount Vernon Avenue, Pomona, California 91768-3312, USA  
1-800-540-5823 or 1-909-865-3081 [www.gwline.com](http://www.gwline.com) | [www.prolong.com](http://www.prolong.com)



## SAFETY DATA SHEET

Issuing Date 21-Sep-2015

Revision Date 21-Sep-2015

Revision Number 0

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

#### 1.1. Product identifier

Product Code(s) 370  
Product Name ALCO EP™  
Synonyms JET-LUBE® ALCO EP™

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

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

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

Importer	Company
Jet-Lube (UK) Ltd	Jet-Lube, Inc.
Jet-Lube House	4849 Homestead Rd. Suite
Reform Road	232
Maidenhead	Houston, Texas 77028
Berkshire UK	TEL: 713-670-5700 (7:00 a.m. - 5 p.m.)
SL6 8BY	
TEL: 44 1628-631913 (8:00 a.m. - 5:00 p.m.)	

#### For further information, please contact

E-mail Address [doldiges@jetlube.com](mailto:doldiges@jetlube.com)

#### 1.4. Emergency telephone number

Emergency Telephone CHEMTREC: 703-527-3887 Number

Europe	112
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### Section 2. Hazards identification

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

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

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

##### Physical Hazards

None

##### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

Symbol(s) Not dangerous

**2.2. Label Elements**

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

**Signal Word** None

**2.3. Other information**

### Section 3. Composition/information on ingredients

**3.1. Substances**

Chemical Name	EC-No	CAS-No	Weight %	Classification	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	60-100	-	-	No data available
Molybdenum (IV) sulfide	215-263-9	1317-33-5	1-5			No data available
Graphite	231-955-3	7782-42-5	1-5	-		No data available

**For the full text of the R-phrases mentioned in this Section, see Section 16**

**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**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice.
<b>Inhalation</b>	Move to fresh air.

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

**Most Important Symptoms/Effects** No information available.

**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**

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

**Extinguishing media which must not be used for safety reasons** No information available.

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

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases** None in particular.

### 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. Avoid contact with the skin and the eyes.

### 6.2. Environmental precautions

Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

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

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

### 6.4. Reference to other sections

Personal protection equipment (PPE) - Refer to Section 8. Disposal  
- Refer to Section 13.

## Section 7. Handling and storage

### 7.1. Precautions for Safe Handling

#### **Handling**

Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

#### **Hygiene Measures**

Wash face, hands and any exposed skin thoroughly after handling. When using, do not eat, drink or smoke.

**7.2. Conditions for safe storage, including any incompatibilities** Keep containers tightly closed in a dry, cool and well-ventilated place.

### 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
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>	
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>
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
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>

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>
Chemical Name)	Austria	Switzerland	Poland	Norway	Ireland
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>
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>

**Derived No Effect Level**

No information available

**Predicted No Effect Concentration (PNEC)**

No information available.

**8.2. Exposure controls****Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment****Eye Protection**

If splashes are likely to occur, wear: Safety glasses with side-shields.

**Skin and Body Protection**

Long sleeved clothing.

**Hand Protection**

Wear nitrile or rubber gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

**Respiratory Protection**

No protective equipment is needed under normal use conditions.

**Environmental Exposure Controls** No information available.

## Section 9. Physical and chemical properties

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

**Physical State**                      Semi-fluid (gel).                      **Appearance**                      Black

**Odor**                                      Petroleum Oil Pungent.

Property	Values	Remarks/ - Method
pH	Neutral	None known
Melting Point/Range	> 260 °C	None known
Boiling Point/Boiling Range	> 316 °C	None known
Flash Point	> 221 °C	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	0.94	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
Viscosity	No data available	None known
Explosive Properties	No information available	
Oxidizing Properties	No information available	

### 9.2. Other information

**VOC Content (%)**                      None  
**Flammability Limits in Air**                      No information available.

## 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. Water.

**10.6. Hazardous decomposition products** None under normal use.

## Section 11. Toxicological information

### 11.1.

#### Acute Toxicity

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Inhalation</b>	None under normal use conditions.
<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	Prolonged or repeated contact may dry skin and cause irritation.
<b>Ingestion</b>	Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Component Information

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

<b>Sensitization</b>	None known.
<b>Mutagenic Effects</b>	None known.
<b>Carcinogenic Effects</b>	No information available.

<b>Reproductive Toxicity</b>	None known. <b>Developmental</b>
<b>Toxicity</b>	None known.
<b>STOT - single exposure</b>	No information available. <b>STOT</b>
<b>- repeated exposure</b>	No information available. <b>Aspiration</b>
<b>Hazard</b>	No information available.

## Section 12. Ecological information

### 12.1. Toxicity

#### Ecotoxicity Effects

The environmental impact of this product has not been fully investigated.

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)		
Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to aquatic invertebrates

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
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**12.2. Persistence and degradability**

Readily biodegradable.

**12.3. Bioaccumulative potential.**

No information available.

**12.4. Mobility in soil**

This information is not available.

**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**

**Waste from Residues / Unused** Dispose of in accordance with local regulations. **Products**

**Contaminated Packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Other Information**

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****14.1. UN-Number**

Not regulated.

**14.2. Proper Shipping Name**

Not regulated.

14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Marine Pollutant	None.
14.6. Special Provisions	None.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

**RID**

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

**ADR**

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

**ICAO**

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

**IATA**

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

<b>Section 15. Regulatory information</b>
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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**



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<b>WGK Classification</b>	Water endangering class = 1
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**International Inventories**

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

<b>Section 16. Other information</b>
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**Full text of R-phrases referred to under Sections 2 and 3**  
No information available

**Key literature references and sources for data**  
[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

<b>Issuing Date</b>	21-Sept-2015
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<b>Revision Date</b>	21-Sept-2015
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<b>Revision Note</b>	Initial Release.
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This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 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.

End of Safety Data Sheet