



Conforms to Regulation (EC) No. 1907/2006 - United Kingdom (UK)

SAFETY DATA SHEET

JET-LUBE EZY OPEN

Product classified as non-hazardous according to NOHSC classification

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product Name: JET-LUBE EZY OPEN
Use of the substance/preparation:
Company/undertaking identification
Manufacturer: Jet-Lube, Inc.
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Houston, TX 77028
Email: doldiges@jetlube.com
USA Corporate phone: (713) 670-5700
Australian Contact: Xtex Pty. Ltd
ABN 40 121 722 236
80 Daly Street
Ascot, WA 6104
1300-00-9839 phone 0437-272-490 mobile
Emergency telephone numbers: NHS DIRECT in the UK USA: CHEMTREC: (800) 424-9300
Emergency number: 08454647 Outside US (Chemtrec): (703) 527-3887

2. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: Not classified
Physical/chemical hazards: Not applicable
Human health hazards: Not applicable
Environmental hazards: Not applicable

See section 11 for more detailed information on health effects and symptoms.

3. Composition /information on ingredients

Table with 5 columns: Ingredient name, CAS Number, EC Number, %, Classification. Rows include Distillates (petroleum), hydrotreated light; Castor Oil; (2-methoxymethylethoxy)propanol; N-Methylpyrrolidone; Silicone dioxide; PTFE.

* Occupational Exposure Limit(s), if available, are listed in Section 8
The quantities of potential carcinogenic compounds detected in the oil are below the regulatory levels beyond which listing as carcinogenic material is required.

4. First aid measures

Effects and symptoms
Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Skin Contact: No known significant effects or critical hazards.
Eye contact: No known significant effects or critical hazards.
First aid measures
Inhalation: In the event of inhalation clear air passage. If respiratory difficulty continues seek medical attention immediately.
Ingestion: Wash out mouth with water. If material has been swallowed, do not induce vomiting unless directed to do so by medical personnel.
Skin contact: Wash with soap and water. Remove contaminated clothing and shoes.
Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes.

5. Fire-fighting measures

Extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
Special exposures hazards: No specific hazard.
Hazardous thermal decomposition products: Some oxides of carbon and phosphorus.
Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

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Personal precautions:	None required although persons with hypersensitive skin should use suitable protective equipment.
Environmental precautions:	Although expected to biodegrade to nonhazardous by-products, avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up:	Contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal.

7. Handling and storage

Handling:	Wash thoroughly after handling.
Storage:	Keep container tightly closed. Keep container in a cool, well-ventilated area.
Packaging materials	
Recommended:	Use original container.
Specific uses:	Not available.

8. Exposure controls/personal protection

Ingredient Name:	Occupational exposure limits
Distillates (petroleum), hydrotreated light	TLV (United States (US)) TWA: 1200 mg/m3 Form: Inhalable fraction
2-methoxymethylethoxy propanol	TLV (United States (US)) TWA: 606 mg/m3 , 15 minutes, 4 times STEL: 909 mg/m3, 15 minutes, 4 times
N-Methylpyrrolidone	MAK (Denmark (DE)) TWA: 400 mg/m3 8 hours, 1 time
Silicon dioxide	TLV (United States (US)) TWA: 10 mg/m3 8 hour/hours. Form: Inhalable fraction TWA: 5 mg/m3 8 hour/hours. Form: Respirable fraction
PTFE	EH40-WEL (United Kingdom (UK), 9/2006) TWA: 10 mg/m3 65534 times per shift, 8 hour/hours. Form: Inhalable fraction PEL: 4 mg/m3 65534 times per shift, 8 hour/hours. Form: Respirable fraction

Exposure controls

Occupational exposure controls: None needed under most circumstances.

Respiratory protection: No respiratory equipment is required for normal use.

Hand protection: None required unless persons have hypersensitive skin.

Eye protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection: None required unless persons have hypersensitive skin.

9. Physical and chemical properties

Physical state:	Gel
Color:	Pale yellow
Odor:	mild solvent to pungent
pH:	Neutral
Boiling point:	199C (390F) - 260C (500F)
Melting point:	-50°C (-58°F)
Flash point:	>75C (167F) [ASTM D-93]
Flammability (solid, gas):	Not applicable
Explosive properties:	Nil at ambient conditions
Explosive limits:	(Approximate volume % in air): LEL: 0.5 %V UEL: 7.0 %V
Oxidizing properties:	Not available
Vapor pressure:	0.012 kPa (0.09 mm Hg) at 20°C 0.044 kPa (0.33 mm Hg) at 38C
Specific gravity:	0.96
Density:	960 kg/m3 (6.8 lbs/gal, 0.83 kg/dm3)
Solubility:	Dispersible, in part, in water.
Octanol/water partition coefficient:	3.3 - 6
Viscosity:	Gel
Vapor density:	> 1 at 101 kPa
Evaporation rate (butyl acetate = 1):	<0.01 compared with Butyl acetate
Auto-ignition temperature:	>200°C (392°F)

10. Stability and reactivity

Stability:	The product is stable
Conditions to avoid:	Keep away from sources of ignition. Keep away from heat.
Materials to avoid:	Not available
Hazardous Decomposition products:	Oxides of carbon & phosphorus.
Hazardous polymerization:	Not available

11. Toxicological information

Potential acute health effects

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Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Eye contact: No known significant effects or critical hazards.

Acute toxicity

Ingredient name

Ingredient name	Test	Result	Route	Species
Castor Oil	LD50	100000 mg/kg bw	Oral	Rat
Castor oil		Castor oil is vegetable-based, made from Castor plant (<i>ricinus communis</i>) seeds. It biodegrades quickly and is non-toxic, castor oil is classified by Food and Drug Administration (FDA) as generally recognized as safe and effective for medicinal use. The Joint Food and Agriculture Organization (FAO)/World Health Organization (WHO) Expert Committee on Food Additives established an acceptable daily castor oil intake (for man) of 0 to 0.7 mg/kg body weight. Castor oil is hydrolyzed in the small intestine, leading to the release of glycerol and Ricinoleic Acid. 3,6-epoxyoctanedioic acid, 3,6-epoxydecanedioic acid, and 3,6-epoxydodecanedioic acid also appear to be metabolites.		
2-methoxymethylethoxy propanol	LD50	5230 mg/kg bw	Oral	Rat
2-methoxymethylethoxy propanol	LD50	13000 - 14000 mg/kg bw	Dermal	Rabbit
N-Methylpyrrolidone	LD50	ca. 3600 mg/kg bw	Oral	Rat
N-Methylpyrrolidone	LD50	7900 mg/kg bw	Oral	Rat
N-Methylpyrrolidone	LD50	5000 mg/kg bw	Oral	Mouse
N-Methylpyrrolidone	LD50	3500 mg/kg bw	Dermal	Rabbit

Potential chronic health effects

Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Reproductive toxicity: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation: No known significant effects or critical hazards as high viscosity makes inhalation unlikely.
Ingestion: No known significant effects or critical hazards as grease results in gastric distress negating bioaccumulation concerns.
Skin: No known significant effects or critical hazards.
Target organs: No known significant effects or critical hazards.
Other adverse effects: Not available

12. Ecological information

Ecotoxicity data

Ingredient name	Species	Period	Result	
Petroleum distillates, hydrotreated	fish	Lepomis macrochirus	LC-50 - 96 hr	1740 mg/l
Petroleum distillates, hydrotreated	fish	Pimephales promelas	LC-50 - 96 hr	>10,000 mg/l
Petroleum distillates, hydrotreated	fish	Tilapia mossambica	LC-50 - 96 hr	>8,000 mg/l
Petroleum distillates, hydrotreated	fish	Tilapia mossambica	LC-50 - 96 hr	>8,000 mg/l
Petroleum distillates, hydrotreated	Crustacea	Dendronereides heteropoda	LC-50 - 48 hr	4720 mg/l
2-methoxymethylethoxy propanol	fish	Notropis atherinoides	LC-50 - 72 hr	> 150 mg/l
2-methoxymethylethoxy propanol	fish	Pimephales promelas	LC-50 - 96 hr	>10,000 mg/l
2-methoxymethylethoxy propanol	Crustacea	Crangon crangon	LC-50 - 96 hr	>1,000 mg/l
2-methoxymethylethoxy propanol	Crustacea	Daphnia magna	LC-50 - 48 hr	1919 mg/l
N-Methylpyrrolidone	fish	Lepomis macrochirus	LC-50 - 96 hr	832 mg/l
N-Methylpyrrolidone	fish	Leuciscus idus	LC-50 - 96 hr	>500 mg/l
N-Methylpyrrolidone	fish	Leuciscus idus	LC-50 - 96 hr	4000 mg/l
N-Methylpyrrolidone	fish	Pimephales promelas	LC-50 - 96 hr	1072 mg/l
N-Methylpyrrolidone	Crustacea	Daphnia magna	LC-50 - 48 hr	ca. 4897 mg/l
Silicon dioxide		Daphnia magna (EC50)	24 hr/hrs	>10000 mg/l

Other ecological information

Mobility: Not available
Other adverse effects: No known significant effects or critical hazards.

13. Disposal consideration

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. The product is expected to biodegrade to components that are expected to be harmless. Consult with regulatory agencies to ensure disposal of this product, and any by-products comply with requirements waste disposal legislation and any regional local authority requirements.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. Transport information

Hazchem code 1Z

International transport regulations

Regulatory information	UN Number	Proper shipping name	Class	Packing group	Label	Additional information
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US Dept. of Transportation	Not regulated	-	-	-	-	-
ADR/RID Class	Not regulated	-	-	-	-	-
ADNR Class	Not regulated	-	-	-	-	-
IMDG Class	Not regulated	-	-	-	-	-
IATA-DGR Class	Not regulated	-	-	-	-	-
Canada - TDG	Not regulated	-	-	-	-	-
Australia ADG Code	Not regulated	-	-	-	-	-

15. Regulatory information

Poison Schedule	Not scheduled	
EU Regulations	This product is not classified according to EU legislation.	
Risk Phrases:	None appear required based on the review of the component data.	
Safety Phrases:	Classification and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use. Industrial applications.	
Product use:		
Other EU regulations		
Additional warning phrases:	Not applicable.	
Restrictions on the marketing and use directive:	Not applicable.	
National regulations United Kingdom (UK)		
COSHH:	The use of this chemical product must be in compliance with provisions included in COSHH (1999) and COSHH Essentials (1999).	
US Regulations:	TSCA: All components are listed. (See Section 3).	TSCA 12B Components: None
SARA 313 (40 CFR Part 372):	None above reportable limits	
SARA 311/312:	None	
CERCLA RQ: N/A	OZONE DEPLETING CHEMICALS: None	
TSCA REGULATORY:	This material or its components are listed in the TSCA inventory.	
RCRA Hazard class: N/A		
Clean Air Act Sect 112 Hazardous Air Pollutants (HAPs):	None	Volatile Organic Chemicals (VOCs): Nil
Canadian Regulations:	DSL: All components are listed. (See Section 3)	
WHMIS: CLASS B-2:	Not regulated	
RoHS Compliance	This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.	

16. Other information

History	
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Prepared by:	
Name & Title	<u>Donald Oldiges, VP of Research & Development</u>
Notice to reader:	

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