



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

SAFETY DATA SHEET

JET-LUBE EZY TURN 3 ARCTIC

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 TURN 3 ARCTIC

Use of the substance/preparation: Silicone Lubricant

Company/undertaking identification

Manufacturer:

Jet-Lube, Inc.
4849 Homestead Rd., Suite 232
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

Substance/preparation:

Preparation

<u>Ingredient name</u>	<u>CAS Number</u>	<u>EC Number</u>	<u>%</u>	<u>Classification</u>
Polydimethyl Siloxane	63148-62-9	Polymer	82 -85	Not classified
Castor oil TDI reaction product	66071-12-3	Polymer	20 - 25	Not classified
Silane, dichlorodimethyl-, rxn products with silica	68611-44-9	271-893-4	7 - 9	Not classified
Polydimethyl Siloxane, Hydroxy terminated	70131-67-8	232-188-7	3 - 7	Not classified
Calcium fluoride	7789-75-5	232-188-7	2 - 5	Not classified
graphite, natural	7782-42-5	231-95-3	2 - 5	Not classified
molybdenum disulfide	1317-33-5	215-263-9	1	Not classified

See section 16 for the full test of the R Phrases declared above.

* Occupational Exposure Limit(s), if available, are listed in Section 8

The quantities of potential carcinogenic compounds detected in the fluids are far 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: No first aid should be needed.

Ingestion: No first aid should be needed.

Skin contact: Flush contaminated skin with plenty of soap and water. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation persists.

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

5. Fire-fighting measures

Extinguishing media:

On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.

Special exposures hazards:

No specific hazard.

Hazardous thermal

Oxides of carbon.

decomposition products:

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

Personal precautions:

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Environmental precautions:

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up:

If emergency personnel are unavailable, contain spilt 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. For large spills, dyke spilt material or otherwise contain material to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

7. Handling and storage

Handling:

Use with adequate ventilation. Avoid eye contact.

Storage:

Use reasonable care and store away from oxidizing materials.

Packaging materials

Recommended:

Use original container.

Specific uses:

Not available.

8. Exposure controls/personal protection

Ingredient Name:

Occupational exposure limits

Polydimethyl Siloxane

EH40-WEL (United Kingdom (UK), 9/2006)

Data Available

Silane, dichlorodimethyl-, rxn products with silica

TLV (United States (US))

TWA: 10 mg/m³ 8 hour/hours. Form: Inhalable fraction

Polydimethyl Siloxane, hydroxy terminated

EH40-WEL (United Kingdom (UK), 9/2006)

Data Available

calcium fluoride

EH40-WEL (United Kingdom (UK), 9/2006). Notes: As F

TWA: 2,5 mg/m³ 65534 times per shift, 8 hour/hours.

graphite, natural

EH40-WEL (United Kingdom (UK), 1/2005)

TWA: 10 mg/m³ 8 hour/hours. Form: Inhalable fraction

STEL: 4 mg/m³ 15 minute/minutes. Form: Respirable fraction

molybdenum disulfide

EH40-WEL (United Kingdom (UK), 9/2006). Notes: As Mo

TWA: 10 mg/m³ 65534 times per shift, 8 hour/hours.

STEL: 20 mg/m³ 65534 times per shift, 15 minute/minutes

Exposure controls

Occupational exposure controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors are collected at their point of release. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection:

No respiratory equipment is required for normal use.

Hand protection:

Handle in accordance with good industrial hygiene and safety practices.

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, or mists.

Skin protection:

Washing at mealtime and end of shift is adequate.

9. Physical and chemical properties

Physical state:

Semi-fluid Gel or paste

Color:

Black

Odor:

Nil

pH:

Neutral

Boiling point:

>315 C (600 F)

Melting point:

None

Flash point:

>260°C (500°F)

Flammability (solid, gas):

Not applicable

Date of issue: 8-June-2010

Version: 1

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Explosive properties:	None
Explosive limits:	Lower: N/A Upper: N/A
Oxidizing properties:	Not available
Vapor pressure:	<0.01 kPa (<0.08 mm Hg) (at 20°C)
Specific gravity:	1.06
Density:	1.06 g/cm ³
Solubility:	Insoluble in cold water & hot water.
Octanol/water partition coefficient:	Not available
Viscosity:	Not available
Vapor density:	>5 (Air = 1)
Evaporation rate (butyl acetate = 1):	<0.01 compared with Butyl acetate
Auto-ignition temperature:	>315 C (600 F)

10. Stability and reactivity

Stability:	The product is stable.
Conditions to avoid:	Keep container away from extreme heat .
Materials to avoid:	Strong oxidizers.
Hazardous Decomposition products:	Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition
Hazardous polymerization:	Will not occur.

11. Toxicological information

Potential acute health effects

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

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Silane, dichlorodimethyl-, rxn products with silica	Daphnia magna (EC50)	24 hr/hrs		>10000 mg/l
	Brachydanio rerio	96 hr/hrs		>10000 mg/l
Castor oil TDI reaction product	All polyurethanes had biodegradability, when measured by a biochemical oxygen demand method in an aqueous medium using activated sludge. The rate of the biodegradation of the polyurethanes increased with an increase of CO/GO ratio. The crosslinked CO-PU showed much higher biodegradability than the linear PEA-TDI. © 2009 Wiley Periodicals, Inc. J Appl Polym Sci, 2010. Naozumi Teramoto, Yuichi Saitoh, Atsuo Takahashi, Mitsuhiro Shibata *Department of Life and Environmental Sciences, Faculty of Engineering, Chiba Institute of Technology, Tsudanuma, Narashino, Chiba 275-0016, Japan.			
calcium fluoride	LD50	4250 mg/kg	Oral	Rat
	LD50	4417 mg/kg	Oral	Rat

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

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Silane, dichlorodimethyl-, rxn products with silica	Daphnia magna (EC50)	24 hr/hrs	>10000 mg/l
	Brachydanio rerio	96 hr/hrs	>10000 mg/l
calcium fluoride	Fish (LC50)	96 hr/hrs	>1800 mg/l
	Algae (EC50)	72 hr/hrs	>1000 mg/l
calcium fluoride	Corophium volutator (LC50)	10 days	>12075 mg/kg
Graphite	Fish (LC50)	96 hr/hrs	>1800 mg/l
	Algae (EC50)	72 hr/hrs	>1000 mg/l
Molybdenum disulfide	Skeletonema costatum (LC50)	72 hr/hrs	>1000 mg/l
	Scophthalmus maximus (EC50)	96 hr/hrs	>1000 mg/l
	Acartia tonsa (LC50)	48 hr/hrs	120 mg/l

Other ecological information

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

13. Disposal consideration

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Methods of disposal:

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and contact with soil, waterways, drains and sewers. Disposal of this product and any by-products should comply with the requirements of environmental protection and 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
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

Risk Phrases:

This product is not classified according to EU legislation.

Safety Phrases:

None required

Product use:

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.

Other EU regulations

Additional warning phrases:

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

16. Other information

History

Date of printing:

June 8, 2010

Date of issue:

June 8, 2010

Date of previous issue:

No previous validation

Version:

1

Prepared by:



Name & Title

Donald Oldiges, VP of Research & Development

Notice to reader:

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