



SAFETY DATA SHEET
JET-LUBE EASY CLEAN - LIQUID
Product classified as 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 EASY CLEAN - LIQUID

Use of the substance/preparation: Heavy duty cleaner & degreaser

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:

Australian Poison Information Centre 13-11-26

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

Ingredient name	CAS Number	EC Number	%	Classification
Distilled Water	7732-18-5	231-791-2	90 - 95	Not classified
(2-methoxymethylethoxy)propanol or	34590-94-8	252-104-2	2 - 5	Not classified
2-Butoxyethanol	111-76-2	203-905-0	2 - 5	Xn
Potassium hydroxide or	1310-58-3	215-181-3	1 - 2	Annex ID # 019-002-00-8 Xi; R36/38
Sodium hydroxide	1310-73-2	215-185-5		
Sodium metasilicate	6834-92-0	229-912-9	5 -10	C; R34 - Xi; R37
The additives do not require carcinogenic listing.				
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 oil are below the regulatory levels beyond which listing as carcinogenic material is required.

4. First aid measures

Effects and symptoms

Inhalation:

May cause respiratory irritation.

Ingestion:

Harmful if swallowed. May cause nausea, gastrointestinal irritation and diarrhea

Skin Contact:

May cause skin irritation, dryness & peeling. There are no reports of human sensitization.

Eye contact:

May cause severe eye irritation/burns, redness, tearing, pain & conjunctival swelling.

First aid measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Wash out mouth with water. If material has been swallowed, do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Obtain medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Notes to Physicians:

Activated charcoal mixture may be beneficial. Suspend 50 g activated charcoal in 400 mL water and mix well. Administer 5 mL/kg, or 350 mL for an average adult.

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

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 occurs.

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

5. Fire-fighting measures

Extinguishing media: Not flammable - Use media appropriate for surrounding material.
Special exposures hazards: No specific hazard. Not a fire or explosion hazard.
Hazardous thermal decomposition products: Some oxides of carbon.
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: Avoid inhalation. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Wash clothing after use.
Environmental precautions: Dike spill.
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: Avoid inhalation. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Wash clothing after use.
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

<u>Ingredient Name:</u>	<u>Occupational exposure limits</u>
Potassium Hydroxide	WEL(UK) 2 mg/m³ - 15 minute period
Potassium hydroxide or	TLV (US) 2 mg/m³ - 15 minute period
Sodium Hydroxide	WEL(UK) 2 mg/m³ - 15 minute period
2-butoxyethanol	TLV (US) 121 mg/m³ - 15 minute period
2-butoxyethanol	WEL(UK) 50 mg/m³ - 15 minute period

Exposure controls

Occupational exposure controls: None needed under most circumstances.

Respiratory protection: Where the potential exists for airborne exposure, wear NIOSH approved respiratory protection.

Hand protection: Impervious type of gloves suitable for caustic materials.

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: Where there is potential for skin contact, have available and wear as appropriate impervious gloves, apron or smock.

9. Physical and chemical properties

Physical state: Liquid
Color: Pale red
Odor: Mild.
pH: 11.5-12.5
Boiling point: 100 C (212 F)
Melting point: None
Flash point: Open cup: >260°C (500°F)
Flammability (solid, gas): Not applicable
Explosive properties: Not applicable

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Explosive limits:	Lower: 0.9% Upper: 7%
Oxidizing properties:	Not available
Vapor pressure:	<0.01 kPa (<0.08 mm Hg) (at 20°C)
Specific gravity:	Not available
Density:	0.935 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:	>260°C (500°F)

10. Stability and reactivity

Stability:	The product is stable
Conditions to avoid:	Not available.
Materials to avoid:	Incompatible or can react with acids, strong oxidizers. May not be suitable for cleaning aluminum in the concentrated form.
Hazardous Decomposition products:	Oxides of carbon.
Hazardous polymerization:	Not available

11. Toxicological information

Potential acute health effects

Inhalation:	May cause respiratory irritation.
Ingestion:	Harmful if swallowed. May cause nausea, gastrointestinal irritation and diarrhea
Skin contact:	May cause skin irritation, dryness & peeling. There are no reports of human sensitization.
Eye contact:	May cause severe eye irritation/burns, redness, tearing, pain & conjunctival swelling.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Potassium hydroxide	LDLo	10000 mg/kg	Oral	Rabbit
Potassium hydroxide	LD50	310 - 425 mg/kg bw	Oral	Rat
Potassium hydroxide	OECD 404	Corrosive	Dermal	Rabbit
Sodium hydroxide	LD100	500 mg/kg	Oral	Rabbit
Sodium hydroxide	LD50	1350 mg/kg bw	Dermal	Rabbit
2-butoxyethanol	LD50	1190 - 2800 mg/kg bw	Oral	Rat
2-butoxyethanol	LDLo	90 - 1800 mg/kg bw	Oral	Rabbit
Sodium metasilicate	LD50	1280 mg/kg bw	Oral	Rat
Sodium metasilicate	OECD 404	Corrosive	Dermal	Rabbit

Potential chronic health effects

Carcinogenicity: No known significant effects or critical hazards.

California Prop 65:

None

Australian National Health & Safety Commission (NOSC):

None

Mutagenicity:

No known significant effects or critical hazards.

Reproductive toxicity:

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation:

Irritation of the respiratory tract.

Ingestion:

No known significant effects or critical hazards as grease results in gastric distress negating bioaccumulation concerns.

Skin:

Dehydrating & defatting of skin, redness, dryness & peeling and discomfort.

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>
Potassium hydroxide	Fish	Gambusia affinis	LC-50, 48 hr	80 mg/l
Sodium hydroxide	Fish	Gambusia affinis	LC-50, 24 hr	85 - 125 mg/l
Sodium hydroxide	Fish	Leuciscus idus melanotus	LC-50, 48 hr	189 mg/l
Sodium hydroxide	Fish	Oncorhynchus mykiss	LC-50, 96 hr	45.4 mg/l
Sodium hydroxide	Crustacean	Daphnia magna	LC-50, 48 hr	100 - 156 mg/l
2-butoxyethanol	Fish	Leuciscus idus melanotus	LC-50, 48 hr	1880 mg/l
2-butoxyethanol	Fish	Lepomis macrochirus	LC-50, 96 hr	2950 mg/l
2-butoxyethanol	Crustacean	Cragon cragon	LC-50, 95 hr	550 - 950 mg/l
2-butoxyethanol	Crustacean	Daphnia magna	LC-50, 24 hr	1698 - 1940 mg/l
Sodium metasilicate	Fish	Gambusia affinis	LC-50, 96 hr	2320 mg/l

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Sodium metasilicate	Fish	Brachydanio rerio	LC-50, 96 hr	210 mg/l
Sodium metasilicate	Crustacean	Daphnia magna	LC-50, 24 hr	>500 mg/l
Sodium metasilicate	Crustacean	Daphnia magna	LC-50, 100 hr	247 mg/l

Other ecological information

Mobility:

Not available

Other adverse effects:

No known significant effects or critical hazards.

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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
US Dept. of Transportation	Not regulated				-	-
ADR/RID Class	UN3266	Corrosive liquid	8	III	-	-
ADNR Class	UN3266	Corrosive liquid	8	III	-	-
IMDG Class	UN3266	Corrosive liquid	8	III	-	-
IATA-DGR Class	UN3266	Corrosive liquid	8	III	-	-
Canada - TDG	UN3266	Corrosive liquid	8	III	-	-
Australia ADG Code	UN3266	Corrosive liquid	8	III	-	-

15. Regulatory information

Poison Schedule

Not scheduled

EU Regulations

Risk Phrases:

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R35 - Causes severe burns

R36/38 - Irritating to eyes and skin.

Safety Phrases:

S1/2 : Keep locked up and out of reach of children.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 - After contact with skin, wash immediately with plenty of water.

S37/39 - Wear suitable gloves and eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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 cleaning applications.

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:

SARA 313 (40 CFR Part 372):

TSCA: All components are listed. (See Section 3).

TSCA 12B Components: None

SARA 311/312:

None above reportable limits
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

State Right to Know:

New Jersey: 7732-18-5, 34590-94-8 or 111-76-2, 1310-58-3 or 1310-73-2, 6834-92-0

Pennsylvania: 7732-18-5, 34590-94-8 or 111-76-2, 1310-58-3 or 1310-73-2, 6834-92-0

Massachusetts: 7732-18-5, 34590-94-8 or 111-76-2, 1310-58-3 or 1310-73-2, 6834-92-0

Rhode Island: 7732-18-5, 34590-94-8 or 111-76-2, 1310-58-3 or 1310-73-2, 6834-92-0

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.

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16. Other information

History

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Version: 1

Prepared by:



Name & Title

Donald Oldiges, VP of Research & Development

NFPA:	Health: 1	Flammability: 0	Reactivity: 0	
HMIS:	Health: 1	Flammability: 0	Reactivity: 0	PPE: B

Notice to reader:

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