



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

SAFETY DATA SHEET

JET-LUBE STEAM CHIEF

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 STEAM CHIEF
Use of the substance/preparation: Lubricant and Sealant grease (petroleum based)
Company/undertaking identification

Manufacturer: Jet-Lube, Inc.
 4849 Homestead Rd., Suite 232
 Houston, TX 77028
 Email: doldiges@jetlube.com USA Coporate 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

<u>Substance/preparation:</u>		Preparation			
<u>Ingredient name</u>	<u>CAS Number</u>	<u>EC Number</u>	<u>%</u>	<u>Classification</u>	
Lubricating grease (petroleum base)	74869-21-9	278-011-7	60 - 65	Not classified	
graphite	7782-42-5	231-95-3	25 - 30	Not classified	
Calcium fluoride	7789-75-5	232-188-7	5 - 10	Not classified	
Bentonite	1302-78-9	310-127-6	2 - 5	Not classified	
PTFE	9002-84-0	Polymer	1 - 2	Polymer	

3a. Lubricating Grease Composition /information on ingredients

<u>Substance/preparation:</u>		Preparation			
<u>Ingredient name</u>	<u>CAS Number</u>	<u>EC Number</u>	<u>%</u>	<u>Classification</u>	
Naphthenic Distillates	64742-52-5	255-155-0	54-76	Not classified	
Hydrotreated residual Oils	64742-57-0	265-101-6	5 - 10	Not classified	
Calcium (C12-C22) sulfonates	26264-06-2	247-557-8	5-10	Not classified	
Calcium Carbonate	471-34-1	207-439-9	10-15	Not classified	
Calcium Borate	13701-64-9	237-224-5	2-5	Not classified	
Calcium 12-hydroxystearate	3159-62-4	221-605-8	2-5	Not classified	
Calcium Phosphates	10103-46-5	233-283-6	0-1	Not classified	
polyisobutylene	9003-29-6	Polymer	0-1	Not classified	
The Petroleum Oils and additives do not require carcinogenic listing.					

Eye contact: No known significant effects or critical hazards.

First aid measures

Inhalation: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Obtain medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Ingestion:

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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. Loosen thigh clothing such as a collar, tie, belt or waistband.

Skin contact:

Flush contaminated skin with plenty of 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:

Use an extinguishing agent suitable for the surrounding fire.

Special exposures hazards:

No specific hazard.

Hazardous thermal decomposition products:

These products are carbon oxides (CO, CO₂), sulphur oxides (SO₂, SO₃, etc.), nitrogen oxides (NO₂, NO₃, etc.) some metallic or mineral oxides and halogenated gases which may be toxic or corrosive.

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:

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:

graphite

Occupational exposure limits

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

calcium fluoride

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

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

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:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection:

No respiratory equipment is required for normal use. In the case of extreme temperatures, a dry residue will result when the grease & oils burn off. Where workers may be exposed to the dust during removal of the film use of air-purifying respirators or dust masks is suggested.

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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.

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Skin protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. Physical and chemical properties

Physical state:	Liquid (gel)
Color:	Black
Odor:	Petroleum pungent
pH:	Neutral
Boiling point:	<316°C (600.8°F)
Melting point:	260°C (500°F)
Flash point:	Open cup: 221°C (429.8°F)
Flammability (solid, gas):	Not applicable
Explosive properties:	Not applicable
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:	1.24 - 1.28 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:	Keep away from sources of ignition. Keep away from heat.
Materials to avoid:	Not available
Hazardous Decomposition products:	These products are carbon oxides (CO, CO ₂), sulphur oxides (SO ₂ , SO ₃ , etc.), HF and other halo carbons.
Hazardous polymerization:	Will not occur.

11. Toxicological information

Potential acute health effects

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 contact:	No known significant effects or critical hazards.
Eye contact:	No known significant effects or critical hazards.

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:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.
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>
calcium fluoride	Fish (LC50)	96 hr/hrs	>1800 mg/l
	Algae (EC50)	72 hr/hrs	>1000 mg/l
Graphite	Fish (LC50)	96 hr/hrs	>1800 mg/l
	Algae (EC50)	72 hr/hrs	>1000 mg/l
Lubricating grease, petroleum based	Fish (LC50)	96 hr/hrs	>1800 mg/l
	Algae (EC50) ,biomass	72 hr/hrs	11 mg/l
	Algae (EC50) ,growth rate	72 hr/hrs	14 mg/l

Other ecological information

Persistence/degradability:

<u>Ingredient name</u>	<u>BOD</u>	<u>COD</u>	<u>ThOD</u>
Lubricating grease, petroleum based	Not available	Not available	2.99 mg O ₂ /mg

<u>Ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
Lubricating grease, petroleum based	Not available	Not available	15 % mineralisation in

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28 days (BODIS)

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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times 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	-	-	-	-	Reference SP-AU01

15. Regulatory information

Poison Schedule

Not scheduled

EU Regulations

Risk Phrases:

This product is not classified according to EU legislation.

Safety Phrases:

S20/21 - When using do not eat, drink or smoke

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

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

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:

Safety data sheet available for professional user on request.

Restrictions on the marketing

Not applicable.

and use directive:

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

State Right to Know:

New Jersey: 64742-57-0; 7782-42-5, 7789-75-5, 1302-78-9, 9002-84-0

Pennsylvania: 64742-57-0; 7782-42-5, 7789-75-5, 1302-78-9, 9002-84-0

Massachusetts: 64742-57-0; 7782-42-5, 7789-75-5, 1302-78-9, 9002-84-0

Rhode Island: 64742-57-0; 7782-42-5, 7789-75-5, 1302-78-9, 9002-84-0

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.

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK):

R Phrases: R22 Harmful if swallowed

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK):

History

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1

Prepared by:



Name & Title

Donald Oldiges, VP of Research & Development

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