



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

SAFETY DATA SHEET

JET-LUBE 21

Product classified as hazardous according to NOHSC classification

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

<u>Identification of the substance or preparation</u>			
Product Name:	Jet-Lube 21		
Use of the substance/preparation:	Lubricant grease (petroleum based)		
<u>Company/undertaking identification</u>			
Manufacturer:	Jet-Lube, Inc. 4849 Homestead Rd., Suite 232 Houston, TX 77028 Email: doldiges@jetlube.com		
	USA Coprorate 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		
Ingredient name	CAS Number	%	EC Number	Classification
Lubricating grease (synthetic base)	74869-21-9	50 - 70	278-011-7	Not classified
graphite, natural	7782-42-5	8-10	231-95-3	Not classified
limestone	1317-65-3	8-10	215-279-6	Not classified
copper	7440-50-8	2 - 8	231-159-6	N; R50
potassium aluminum silicates	12001-26-2	1 - 5		Not classified

3a. Lubricating Grease Composition /information on ingredients

<u>Substance/preparation:</u>		Preparation		
Ingredient name	CAS Number	%	EC Number	Classification
Naphthenic Distillates	64742-52-5	68-84	255-155-0	Not classified
Hydrotreated residual Oils	64742-57-0	10-20	265-101-6	Not classified
Aluminum, benzoate C16-18-fatty acid complex	94166-87-7	5-10	303-385-6	Not classified
polyisobutylene	9003-29-6	1 -2	Polymer	Not classified
The Petroleum Oils and 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

<u>Effects and symptoms</u>	
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.
<u>First aid measures</u>	
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.). Some metallic oxides.
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:	Occupational exposure limits
graphite, natural	EH40-WEL (United Kingdom (UK), 1/2005) TWA: 10 mg/m ³ 8 hour/hours. Form: Inhalable fraction STEL: 4 mg/m ³ 15 minute/minutes. Form: Respirable fraction
limestone	EH40-WEL (United Kingdom (UK), 9/2006) TWA: 10 mg/m ³ 65534 times per shift, 8 hour/hours. Form: Inhalable fraction STEL: 4 mg/m ³ 65534 times per shift, 15 minute/minutes. Form: Respirable fraction
copper	EH40-WEL (United Kingdom (UK), 9/2006). Notes: As Cu TWA: 1 mg/m ³ 65534 times per shift, 8 hour/hours. STEL: 2 mg/m ³ 65534 times per shift, 15 minute/minutes
potassium aluminum silicates	EH40-WEL (United Kingdom (UK), 9/2006) TWA: 10 mg/m ³ 65534 times per shift, 8 hour/hours. Form: Inhalable fraction TWA: 0,8 mg/m ³ 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.

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: Dark Copper / bronze
Odor: Petroleum pungent

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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:	1.10 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), sulfur oxides (SO ₂ , SO ₃), etc.). Some metallic oxides.
Hazardous polymerization:	Not available

11. Toxicological information

<u>Potential acute health effects</u>	
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.
<u>Potential chronic health effects</u>	
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.
<u>Over-exposure signs/symptoms</u>	
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>
copper	Daphnia magna (EC50)	48 hr/hrs	0.0318 mg/l
	Daphnia magna (EC50)	48 hr/hrs	0.036 mg/l
	Daphnia magna (EC50)	48 hr/hrs	0.055 mg/l
	Pimephales promelas (LC50)	96 hr/hrs	0.0094 mg/l
	Pimephales promelas (LC50)	96 hr/hrs	0.0103 mg/l
Graphite	Pimephales promelas (LC50)	96 hr/hrs	0.0278 mg/l
	Fish (LC50)	96 hr/hrs	>1800 mg/l
Lubricating grease, petroleum based	Algae (EC50)	72 hr/hrs	>1000 mg/l
	Fish (LC50)	96 hr/hrs	>1800 mg/l
	Algae (EC50) ,biomass	72 hr/hrs	641 mg/l
	Algae (EC50) ,growth rate	72 hr/hrs	>1000 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	3.78 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	6.2 % mineralisation in 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.
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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.
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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	Tool Joint Compound				Approval CA2006100003
ADR/RID Class	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	Hazard ID No. 90
ADNR Class	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	Hazard ID No. 90
IMDG Class	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	Hazard ID No. 90
IATA-DGR Class	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	Hazard ID No. 90
Canada TDG	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	Hazard ID No. 90
Australia ADG Code	UN3077	Environmentally hazardous substance, solid, n.o.s. (Copper)	9	III	9 Misc.	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 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): This material contains Materials which are subject to the reporting requirements.

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

Canadian Regulations: **DSL:** All components are listed. (See Section 3)

WHMIS: CLASS B-2: Not Controlled.

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK): R50 - Very toxic to aquatic organisms.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK): N - Dangerous for the environment.


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