



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

SAFETY DATA SHEET

Z-50

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 Z-50		
Use of the substance/preparation:	Pipe Dope (petroleum based). Thread Compound for Rotary Shouldered connections.		
<u>Company/undertaking identification</u>			
Manufacturer:	Jet-Lube, Inc. 4849 Homestead Rd., Suite 232 Houston, TX 77028 Email: doldiges@jetlube.com		
Australian Contact:	Xtex Pty. Ltd ABN 40 121 722 236 80 Daly Street Ascot, WA 6104	USA Corporate phone:	(713) 670-5700
Emergency telephone numbers:	NHS DIRECT in the UK Emergency number: 08454647	USA: CHEMTREC: Outside US (Chemtrec):	(800) 424-9300 (703) 527-3887

2. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.	
Classification:	Repr. Cat. 1; R61 Repr. Cat. 3; R62 Xn: R20/22 R33 N; R50/53
Physical/chemical hazards:	Not applicable
Human health hazards	Harmful by inhalation and if swallowed. Danger of cumulative effects. May cause harm to the unborn child. Possible risk of impaired fertility.
Environmental hazards:	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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
Lubricating grease (synthetic base)	74869-21-9	30-40	278-011-7	Not classified
zinc	7440-66-6	50	231-175-3	N; R50/53
Lead (as allowed contaminant in zinc)	7439-92-1	>0.5	231-100-4	Repr. Cat. 1; R61 Repr. Cat. 3; R62 Xn; R20/22 R33 N; R50/53
Talc	14807-96-6	5-10	238-877-9	Not classified
potassium aluminum silicates	12001-26-2	5-10		Not classified
Calcium Oxide	1317-33-5	0-1	215-139-9	Not classified

3a. Lubricating Grease Composition /information on ingredients

Substance/preparation:	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.				

Eye contact:	No known significant effects or critical hazards.
First aid measures	
Inhalation:	Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. Get medical attention. 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:

Get medical attention immediately. 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. Continue to rinse for at least 10 minutes. Get medical attention. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. 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.

This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products:

These products are carbon oxides (CO, CO₂). 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

Do not ingest. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Avoid contact of spilt material and runoff with soil and surface waterways. Wash thoroughly after handling.

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

Zinc

NOT LISTED ON EH40-WEL (United Kingdom (UK), 9/2006).

NO TWA, PEL or STEL DATA found for metallic zinc

lead (as allowed contaminant in zinc)

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

TWA: 0, 15 mg/m³ 65534 times per shift, 8 hour/hours.

Talc

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

TWA: 1 mg/m³ 65534 times per shift, 8 hour/hours. Form: Inhalable fraction

potassium aluminum silicates

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

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

TWA: 0,8 mg/m³ 65534 times per shift, 8 hour/hours. Form: Respirable fraction

Calcium Oxide

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

TWA: 2mg/m³ 8 hour/hours. Form: Inhalable fraction

STEL: 4 mg/m³ 15 minute/minutes. 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.

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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:	gray
Odor:	Petroleum pungent
pH:	Neutral
Boiling point:	>274°C (525.2°F)
Melting point:	>138°C (280.4°F)
Flash point:	Open cup: 221°C (429.8°F)
Flammability (solid, gas):	Not applicable
Explosive properties:	Not available
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:	1.78 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:	Although encapsulated by grease, zinc reacts with water and releases a flammable gas.
Hazardous Decomposition products:	These products are carbon oxides (CO, CO ₂). Metallic oxides.

Hazardous polymerization: Will not occur.

11. Toxicological information

Potential acute health effects

Inhalation:	Harmful by inhalation.
Ingestion:	Harmful if swallowed.
Skin contact:	No known significant effects or critical hazards.
Eye contact:	No known significant effects or critical hazards.

Acute toxicity

Ingredient name	Test	Result	Route	Species
zinc	LDLo	388 mg/kg	Oral	duck
lead	LDLo	155 mg/kg	Oral	Human
	LDLo	160 mg/kg	Oral	pigeon

Potential chronic health effects

Ingredient name	Carcinogenic effects	Mutagenic effects	Developmental toxicity	Impairs fertility
lead	-	-	Repr. Cat. 1; R61	Repr. Cat. 3; R62

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Reproductive toxicity: Contains material that can cause birth defects.

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:	Contains material that causes damage to the following organs: blood, kidneys, liver, gastrointestinal tract, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), eye (lens or cornea).

Other adverse effects: Not available

12. Ecological information

Ecotoxicity data

Ingredient name	Species	Period	Result
lead	Oncorhynchus mykiss (LC50)	96 hr/hrs	1.17 mg/l
	Oncorhynchus mykiss (LC50)	96 hr/hrs	471 mg/l
	Oncorhynchus mykiss (LC50)	96 hr/hrs	542 mg/l
zinc	Daphnia magna (EC50)	48 hr/hrs	2.8 mg/l
	Pimephales promelas (LC50)	96 hr/hrs	0.238 mg/l
	Oncorhynchus mykiss (LC50)	96 hr/hrs	0.24 mg/l

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Lubricating grease, petroleum based	Oncorhynchus mykiss (LC50)	96 hr/hrs	0.41 mg/l
	Oncorhynchus mykiss (LC50)	96 hr/hrs	0.56 mg/l
	Daphnia magna (EC50)	96 hr/hrs	0.57 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**Mobility:** Not available**Other adverse effects:** Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.**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.

Waste classification: A1020**Hazardous waste:** The classification of the product may meet the criteria for a hazardous waste.**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	UN3077	Environmentally hazardous substance, solid, n.o.s. (zinc)	9	III	9 Misc.	Hazard ID No. 90
ADR/RID Class	3082	Environmentally hazardous substance, solid, n.o.s. (zinc)	9	III		Limited quantity LQ7
ADNR Class	3082	Environmentally hazardous substance, liquid, n.o.s. (zinc)	9	III		-
IMDG Class	3082	Environmentally hazardous substance, liquid, n.o.s. (zinc).	9	III		Emergency schedules (EmS) F-A, S-F
IATA-DGR Class	3082	Environmentally hazardous substance, solid, n.o.s. (zinc).	9	III		-
Australia ADG Code	3082	Environmentally hazardous substance, solid, n.o.s. (zinc)	9	III		Reference SP-AU01

15. Regulatory information**Poison Schedule** Not scheduled**EU Regulations****Hazard symbol/symbols:****Risk Phrases:**Toxic, dangerous for the environment.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**Safety Phrases:**

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

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.

Contains:**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:**

Not applicable.

Restrictions on the marketing and use directive:

Restricted to professional users.

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):****SARA 311/312:****TSCA:** All components are listed. (See Section 3).

This product contains materials which are subject to the reporting requirements.

None

TSCA 12B Components: None

Z-50**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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