



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

SAFETY DATA SHEET

JET-LUBE RUN N SEAL - EXTREME

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 RUN N SEAL - Extreme
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 | | |
|--|------------|-------------|-----------|----------------|
| Ingredient name | CAS Number | % | EC Number | Classification |
| Lubricating grease (petroleum base) | 74869-21-9 | 40 - 60 | 278-011-7 | Not classified |
| graphite, natural | 7782-42-5 | 20-25 | 231-95-3 | Not classified |
| Talc | | 5-10 | 238-877-9 | Not classified |
| potassium aluminum silicates | 12001-26-2 | 5-10 | 310-127-6 | Not classified |
| Calcium Oxide | 1317-33-5 | 2-5 | 215-139-9 | Not classified |
| PTFE | 9002-84-0 | 2-5 | Polymer | |
| Poly(p-phenylenediamine terephthalamide) | 26125-61-1 | 0-1 | Polymer | |

3a. Lubricating Grease Composition /information on ingredients

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

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

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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.

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: | 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 |
| Talc | EH40-WEL (United Kingdom (UK), 9/2006) TWA: 1 mg/m ³ 65534 times per shift, 8 hour/hours. Form: Inhalable fraction |
| 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 |
| Calcium Oxide | EH40-WEL (United Kingdom (UK), 1/2005) TWA: 2mg/m ³ 8 hour/hours. Form: Inhalable fraction STEL: 4 mg/m ³ 15 minute/minutes. Form: Respirable fraction |
| PTFE | EH40-WEL (United Kingdom (UK), 9/2006) TWA: 10 mg/m ³ 65534 times per shift, 8 hour/hours. Form: Inhalable fraction PEL: 4 mg/m ³ 65534 times per shift, 8 hour/hours. Form: Respirable fraction |
| Poly(p-phenylenediamine terephthalamide) | No Data |

Exposure controls

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| | |
|--|---|
| 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: | 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: | 1.22 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 | | | |
| Ingredient name | Species | Period | Result |
| Graphite | Fish (LC50) | 96 hr/hrs | >1800 mg/l |

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| | | | |
|-------------------------------------|---------------------------|-----------|------------|
| 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 | 11 mg/l |
| | Algae (EC50) ,growth rate | 72 hr/hrs | 14 mg/l |

Other ecological information

Persistence/degradability:

Ingredient name

Lubricating grease, petroleum based

BOD

Not available

COD

Not available

ThOD

2.99 mg O₂/mg

Ingredient name

Lubricating grease, petroleum based

Aquatic half-life

Not available

Photolysis

Not available

Biodegradability

15 % 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.

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

| <u>Regulatory information</u> | <u>UN Number</u> | <u>Proper shipping name</u> | <u>Class</u> | <u>Packing group</u> | <u>Label</u> | <u>Additional information</u> |
|-----------------------------------|------------------|-----------------------------|--------------|----------------------|--------------|-------------------------------|
| <u>USA Dept of Transportation</u> | Not regulated | | | | | |
| <u>ADR/RID Class</u> | Not regulated | - | - | - | - | - |
| <u>ADNR Class</u> | Not regulated | - | - | - | - | - |
| <u>IMDG Class</u> | Not regulated | - | - | - | - | - |
| <u>IATA-DGR Class</u> | Not regulated | - | - | - | - | - |
| <u>Australia ADG Code</u> | Not regulated | - | - | - | - | Reference SP-AU01 |

15. Regulatory information

Poison Schedule

Not scheduled

EU Regulations

Risk Phrases:

Safety Phrases:

This product is not classified according to EU legislation.

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:

SARA 313 (40 CFR Part 372):

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

NONE

TSCA 12B Components: None

NONE

CERCLA: Nonhazardous **RCRA Hazard class:** Nonhazardous

SARA 311/312:

OZONE DEPLETING CHEMICALS: None

Clean Air Act Sect 112 Hazardous Air Pollutants (HAPs): None

Volatile Organic Chemicals (VOCs):

Nil

State Right to Know:

New Jersey: 7782-42-5, 14807-96-6, 1317-33-5, 9002-84-0

Pennsylvania: 7782-42-5, 14807-96-6, 1317-33-5, 9002-84-0

Massachusetts: 7782-42-5, 14807-96-6, 1317-33-5, 9002-84-0

Rhode Island : 7782-42-5, 14807-96-6, 1317-33-5, 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

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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

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Name & Title

Donald Oldiges, VP of Research & Development

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