



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

SAFETY DATA SHEET JET LUBE TEMP GUARD

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 TEMP GUARD
Use of the substance/preparation: Lubricating grease - synthetic

Company/undertaking identification

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
Emergency number: 08454647

USA: CHEMTREC: (800) 424-9300
Outside US (Chemtrec): (703) 527-3887

Xtex Pty. Ltd 1300-00-XTEX

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 |
|------------------------------------------------------------------------------|------------|-----------|---------|----------------|
| 1 Decene homopolymer | 68037-01-4 | 500-183-1 | 25 - 30 | Not classified |
| White Mineral Oil | 8042-47-7 | 232-455-8 | 50 - 75 | Not classified |
| Silane, dichlorodimethyl-, rxn products with silica | 68611-44-9 | 271-893-4 | 9 - 12 | Not classified |
| molybdenum disulfide | 1317-33-5 | 215-263-9 | 2 - 5 | Not classified |
| graphite | 7782-42-5 | 231-95-3 | 2 - 5 | Not classified |
| Calcium Carbonate | 1317-65-3 | 215-279-6 | 2 - 5 | Not classified |
| pentaerythritol tetraoleate | 19321-40-5 | 242-960-5 | 25 - 30 | Not classified |
| Castor Oil | 8001-79-4 | 232-293-8 | 5 - 10 | Not classified |
| polyisobutylene | 9003-29-6 | Polymer | 3 - 5 | Not classified |
| The synthetic 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

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 tight 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: Oxides of carbon, sulfur & nitrogen.
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: None required

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

| <u>Ingredient Name:</u> | <u>Occupational exposure limits</u> |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Silane, dichlorodimethyl-, rxn products with silica | TLV (United States (US)) TWA: 10 mg/m ³ 8 hour/hours. Form: Inhalable fraction |
| molybdenum disulfide | EH40-WEL (United Kingdom (UK), 9/2006). Notes: As Mo TWA: 10 mg/m ³ 65534 times per shift, 8 hour/hours. STEL: 20 mg/m ³ 65534 times per shift, 15 minute/minutes |
| graphite | 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 |
| Calcium carbonate As dust | 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 |

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: | Solid (paste) |
| Color: | Black |
| Odor: | pungent |
| pH: | Neutral |
| Boiling point: | Not available |
| Melting point: | >315°C (600°F) |
| Flash point: | Open cup: >310°C (590°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: | 1.02 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: | >315°C (600°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: | Some metallic oxides. |
| Hazardous polymerization: | Not available |

11. Toxicological information

Potential acute health effects

| | |
|----------------------|---------------------------------------------------|
| 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. |

Acute toxicity

| <u>Ingredient name</u> | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|-----------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|
| 1 Decene homopolymers | | 1 Decene homopolymers biodegrade quickly and are non-toxic, classified by Food and Drug Administration (FDA) as generally recognized as safe and effective for use as a stimulant laxative. It is allowable for incidental food grade contact lubricant use. | | |
| Castor Oil | LD50 | 100000 mg/kg | Oral | Rat |
| Castor oil | | Castor oil is vegetable-based, made from Castor plant (<i>ricinus communis</i>) seeds. It biodegrades quickly and is non-toxic, castor oil is classified by Food and Drug Administration (FDA) as generally recognized as safe and effective for medicinal use. The Joint Food and Agriculture Organization (FAO)/World Health Organization (WHO) Expert Committee on Food Additives established an acceptable daily castor oil intake (for man) of 0 to 0.7 mg/kg body weight. Castor oil is hydrolyzed in the small intestine, leading to the release of glycerol and Ricinoleic Acid. 3,6-epoxyoctanedioic acid, 3,6-epoxydecanedioic acid, and 3,6-epoxydodecanedioic acid also appear to be metabolites. | | |
| Pentaerythritol tetraoleate | | Pentaerythritol tetraoleate biodegrades quickly and is non-toxic, castor oil is classified by Food and Drug Administration (FDA) as generally recognized as safe. It is used in cosmetics and other applications. | | |

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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 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: 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> |
|------------------------|-----------------------------|---------------|---------------|
| 1 Decene homopolymer | Skeletonema costatum (EC50) | 72 hr/hrs | 4983 mg/l |
| | Acartia tonsa (LC50) | 24 hr/hrs | 5400 mg/l |
| Silicon dioxide | Daphnia magna (EC50) | 24 hr/hrs | >10000 mg/l |
| Graphite | Fish (LC50) | 96 hr/hrs | >1800 mg/l |
| | Algae (EC50) | 72 hr/hrs | >1000 mg/l |

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

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).

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US Regulations:

SARA 313 (40 CFR Part 372):
SARA 311/312:

TSCA: All components are listed. (See Section 3).
None above reportable limits
None

TSCA 12B Components: 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: | 68037-01-4, 8042-47-7, 68611-44-9, 8001-79-4, 9003-29-6 |
| Pennsylvania: | 68037-01-4, 8042-47-7, 68611-44-9, 8001-79-4, 9003-29-6 |
| Massachusetts: | 68037-01-4, 8042-47-7, 68611-44-9, 8001-79-4, 9003-29-6 |
| Rhode Island : | 68037-01-4, 8042-47-7, 68611-44-9, 8001-79-4, 9003-29-6 |

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

History

| | |
|--------------------------------|------------------------|
| Date of printing: | November 3, 2010 |
| Date of issue: | November 3, 2010 |
| Date of previous issue: | No previous validation |
| Version: | 1 |

Prepared by:



Donald Oldiges, VP of Research & Development

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