



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

## SAFETY DATA SHEET

### JET-LUBE RENEW FG BELT DRESSING - AEROSOL

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 RENEW FG BELT DRESSING - AEROSOL

**Use of the substance/preparation:** Belt Dressing

##### Company/undertaking identification

**Manufacturer:** Jet-Lube, Inc.  
4849 Homestead Rd., Suite 232  
Houston, TX 77028  
Email: [doldiges@jetlube.com](mailto:doldiges@jetlube.com)

**Australian Contact:** Xtex Pty. Ltd  
ABN 40 121 722 236  
80 Daly Street  
Ascot, WA 6104

##### Emergency telephone numbers:

NHS DIRECT in the UK  
Emergency number: 08454647

1300-00-9839 phone  
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:** Extremely Flammable Liquid

**Physical/chemical hazards:** Flammable Liquid/Aerosol/Gas: Category 1

**Human health hazards:** Acute Toxicity: Category ?; Skin Corrosion: Category ?; Skin Sensitization: UN; Eye: Category ?

**Environmental hazards:** Acute Toxicity: Category ?; Chronic Toxicity: Category ?

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           |
|------------------------|------------|-----------|---------|--------------------------|
| Polybutenes            | 9003-29-6  | Polymer   | 10 - 15 | Not classified           |
| Heptane                | 142-82-5   | 205-563-8 | 65 - 70 | F; R11 - Xi; R36-R66-R67 |
| or Hexane              | 110-54-3   | 203-777-6 |         | F; R11 - Xi; R36-R66-R67 |
| Hydrocarbon propellant | 68476-85-7 | 270-704-2 | 20 - 30 | F; R11 - Xi; R36-R66-R67 |

The solvents and additives do not require carcinogenic listing.

**Risk Phrases:** R11; R38; R65; R67 R51/53- SEE Section 15 for greater details

**Safety Phrases:** S2; S9 S16; S29; S61, S62 - SEE Section 15 for greater details

\* Occupational Exposure Limit(s), if available, are listed in Section 8

#### 4. First aid measures

##### Effects and symptoms

##### Inhalation:

Inhalation of vapors irritates the respiratory tract. May produce light headedness, dizziness, muscle incoordination, loss of appetite and nausea. Higher concentrations can produce central nervous system depression, narcosis, and unconsciousness.

##### Ingestion:

May produce abdominal pain, nausea. Aspiration into lungs can produce severe lung damage and is a medical

##### Skin Contact:

May cause mild irritation, redness, pain

##### Eye contact:

May be irritating to the eyes.

##### First aid measures

##### Inhalation:

Move exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

##### Ingestion:

Aspiration hazard. Do NOT induce vomiting. Give large amounts of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

##### Skin contact:

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

##### 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. Seek medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

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**5. Fire-fighting measures**

**Extinguishing media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam.

**Inappropriate Extinguishing Media:**

Do NOT use straight streams of water. Cool containers with flooding quantities of water until well after fire is out.

**Special exposures hazards:**

**Hazardous thermal decomposition products:**

**Special protective equipment for fire-fighters:**

Smoke, Fume, Incomplete combustion products. Oxides of carbon, sulfur & nitrogen.

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. May polymerize explosively when involved in a fire. Containers may explode when heated.

**6. Accidental release measures**

**Personal precautions:**

See Exposure Controls in Section 8 below.

**Environmental precautions:**

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. When released into the soil, this material may biodegrade to a moderate extent. When released into the soil, this material is not expected to leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life between 1 and 10 days. This material has an estimated bioconcentration factor (BCF) of less than 100. This material has a log octanol-water partition coefficient of greater than 3.0. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.

**Methods for cleaning up:**

Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

**7. Handling and storage**

**Handling:**

Wash thoroughly after handling.

**Storage:**

**Packaging materials**

**Recommended:**

**Specific uses:**

Store in a cool, well-ventilated area. Storage containers should be earthed and bonded. Drums must be earthed and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters. Storage Temperature: [0C(-18F)-35C (95F)] Storage Pressure: [Ambient]

Use original container.

Not available.

**8. Exposure controls/personal protection**

**Ingredient Name:**

Polybutene

**Occupational exposure limits**

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

No Data Available

Hexane

TWA: 20 8 hour period, 72 mg/m<sup>3</sup>

Heptane

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

Heptane

TWA: 500 ppm

Heptane

STEL 2050 mg/m<sup>3</sup> [United States]

Heptane

TWA: 500 (ppm) from OSHA (PEL) [United States]

Heptane

TWA: 2000 (mg/m<sup>3</sup>) from OSHA (PEL) [United States]

Heptane

TWA: 350 CEIL: 1800 (mg/m<sup>3</sup>) from NIOSH [United States]

Heptane

TWA: 500 (ppm) [United Kingdom (UK)]

Heptane

TWA: 400 STEL: 500 (ppm) [Canada]

Heptane

TWA: 1640 STEL: 2049 (mg/m<sup>3</sup>) [Canada]

Heptane

TWA: 400 STEL: 500 (ppm) [Belgium]

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|   |  |
|---|--|
| Heptane<br>Heptane<br>Heptane<br><br>Hydrocarbon propellant | <b>TWA: 200 (ppm) [Norway]</b><br><b>TWA: 300 STEL: 500 (ppm) [Finland]</b><br><b>TWA: 500 (ppm) [Austria] Consult local authorities for acceptable exposure limits.</b><br><br><b>TLV (United States (US)) 1000 ppm; schedule: 15 minutes</b> |
|---|--|

|  |   |
|--|---|
| <b>Exposure controls</b><br><b>Occupational exposure controls:</b> | 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.   |
| <b>Respiratory protection:</b>                                     | A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details. If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. <b>WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.</b> |
| <b>Hand protection:</b>  | 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.   |
| <b>Eye protection:</b>   | 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.   |
| <b>Skin protection:</b>  | 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**

|  |   |
|--|---|
| <b>Physical state:</b>                       | Liquid  |
| <b>Color:</b>                                | Clear   |
| <b>Odor:</b>                                 | Light paraffinic hydrocarbon  |
| <b>pH:</b>                                   | Neutral   |
| <b>Boiling point:</b>                        | >(194°F) to > (230°F)   |
| <b>Melting point:</b>                        | (-210°F) to (-130°F)  |
| <b>Flash point:</b>                          | >CLOSED CUP: -20°C (-4°F). OPEN CUP: -9°C (15.8°F) (Cleveland).   |
| <b>Flammability (solid, gas):</b>            | Flammable<br><br>Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated. Sensitive to static discharge. |
| <b>Explosive properties:</b>                 |   |
| <b>Explosive limits:</b>                     | (Approximate volume % in air): LEL: 1.0 %V UEL: 6.7 %V  |
| <b>Oxidizing properties:</b>                 | None  |
| <b>Vapor pressure:</b>                       | 40 - 45 mmHg at 20°C (68°F) 5 kPa (@ 20°C)  |
| <b>Specific gravity:</b>                     | 0.69 at (60°F)  |
| <b>Density:</b>                              | 690 kg/m3 (5.75 lbs/gal, 0.69 kg/dm3)   |
| <b>Solubility:</b>                           | Solvent fraction largely soluble in cold water, hot water.  |
| <b>Octanol/water partition coefficient:</b>  | > 3.0   |
| <b>Viscosity:</b>                            | Like water  |
| <b>Vapor density:</b>                        | 3.4-3.5 (Air=1)   |
| <b>Evaporation rate (butyl acetate = 1):</b> | 4.5 (n-Butyl Acetate=1)   |
| <b>Auto-ignition temperature:</b>            | 246°C (475°F)   |

**10. Stability and reactivity**

|  |   |
|--|---|
| <b>Stability:</b>                        | The product is stable   |
| <b>Conditions to avoid:</b>              | Keep away from sources of ignition. Keep away from heat.<br><br>Strong oxidizing agents, amines, ammonia, copper, isocyanates, caustics (e.g. ammonia, ammonium hydroxide, calcium hydroxide, potassium hydroxide, sodium hydroxide), chlorosulfonic acid, fuming sulfuric acid, potassium tert-butoxide, pyridine, chloroform + alkali, hydrogen peroxides + nitric acid, 2-propanol, inorganic acids.<br>Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide. |
| <b>Materials to avoid:</b>               |   |
| <b>Hazardous Decomposition products:</b> |   |
| <b>Hazardous polymerization:</b>         | Has not been reported.  |

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**11. Toxicological information**

Potential acute health effects

**Inhalation - Toxicity:** Minimally Toxic. Based on test data for the material.  
**Inhalation - Irritation:** Negligible hazard at ambient/normal handling temperatures with adequate ventilation.  
**Ingestion:** No known significant effects or critical hazards.  
**Skin contact:** Mildly irritating to skin with prolonged exposure.  
**Eye contact:** Can cause mild, short-lasting discomfort to eyes. Not expected in well ventilated areas.  
Acute toxicity

| <u>Ingredient name</u> | <u>Test</u>            | <u>Result</u>         | <u>Route</u> | <u>Species</u> |
|------------------------|------------------------|-----------------------|--------------|----------------|
| Polybutene             | LD50                   | >10250 mk/kg bw       | Oral         | Rat            |
| Polybutene             | LC50, 4 hours          | >34600 mk/kg bw       | Inhalation   | Rat            |
| Polybutene             | LD50                   | >17300 mk/kg bw       | Dermal       | Rabbit         |
| Hexane                 | LD -50, Draize 72 Hrs. | 28710 mg/kg           | Acute Oral   | Rat            |
| Hexane                 | LD -50, Draize         | 10 mg/kg              | Eye test -   | Rabbit         |
| Hexane                 | LD -50                 | 3000 mg/kg bw         | Skin         | Rabbit         |
| Hexane                 | LD -50                 | 5000 mg/kg bw         | Acute Oral   | Mouse          |
| Hexane                 | LC50                   | 48000 ppm/4H          | Inhalation   | Rat            |
| Heptane                | LC -50                 | 103 mg/m 4 hours      | Inhalation   | Rat            |
| Heptane                | LD -50                 | 17000 mg/kg bw        | Acute Oral   | Rat            |
| Hydrocarbon Propellant | LC -50                 | 500,000 mg/m3/15 min. | Inhalation   | Rat            |

**High Pressure Injection:** Seek medical advice immediately for subcutaneous injection.

Potential chronic health effects

**Carcinogenicity:** May contain small amounts of Ethylbenzene which is known to cause cancer.

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

Not expected to be harmful to aquatic organisms

Ingredient name

| <u>Ingredient name</u> | <u>Species</u>             | <u>Period</u> | <u>Result</u>  |
|------------------------|----------------------------|---------------|----------------|
| Heptane                | Gambusia affinis           | LC50 (48 HR.) | 4924 mg/l      |
| Heptane                | Leuciscus idus             | LC50 (96 HR.) | 250 - 270 mg/l |
| Heptane                | Orcorhynchus kisutch       | LC50 (96 HR.) | >100 mg/l      |
| Heptane                | Daphnia magna              | EC50 (24 HR.) | >10 mg/l       |
| Polybutenes            | Daphnia magna (EC50)       | 48 hr/hrs     | >10000 mg/l    |
| Polybutenes            | Daphnia magna (EC50)       | 48 hr/hrs     | >1000 mg/l     |
|                        | Oncorhynchus mykiss (LC50) | 96 hr/hrs     | >10000 mg/l    |

Biodegradation:

Solvent portion biodegrades 55-63% in 28 days in OECD 301B tests.

Other ecological information

**Mobility:**

Material -- Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

**Other adverse effects:**

No known significant effects or critical hazards.

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**13. Disposal consideration**

**Methods of disposal:**

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled 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:**

European Waste Code: 07 01 99 NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

**14. Transport information**

**Hazchem code 1Z**

**International transport regulations**

| Regulatory information     | UN Number | Proper shipping name    | Class | Packing group | Label | Additional information |
|----------------------------|-----------|-------------------------|-------|---------------|-------|------------------------|
| USA Dept of Transportation | 1950      | Consumer Comodoty ORM-D | 2.1   | None          |       |                        |
| ADR/RID Class              | 1950      | Aerosols, Flammable     | 2.1   | None          |       | -                      |
| ADNR Class                 | 1950      | Aerosols, Flammable     | 2.1   | None          |       | -                      |
| IMDG Class                 | 1950      | Aerosols, Flammable     | 2.1   | None          |       | -                      |
| IATA-DGR Class             | 1950      | Aerosols, Flammable     | 2.1   | None          |       | -                      |
| Australia ADG Code         | 1950      | Aerosols, Flammable     | 2.1   | None          |       | Reference SP-AU01      |

**15. Regulatory information**

**Poison Schedule**

Not scheduled

**EU Regulations**

**Risk Phrases:**

R11 : Highly flammable; R 20: Harmful by inhalation.R, 38 : Irritating to skin.; R22; Harmful if swallowed.

**Safety Phrases:**

S-2: Keep out of reach of children S9- Keep container in a well-ventilated place. S16- Keep away from sources of ignition - No smoking. S23; Do not breathe vapour / spray S29 : Do not empty into drains. S51: Use in well ventilated areas. S62; If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label; S33 : Take precautionary measures against static discharges; S60 : This material and its container must be disposed of as hazardous waste. 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**

**Restrictions on the marketing and use directive:**

Not applicable.

**National regulations United Kingdom (UK)**

**US Regulations:**

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

**TSCA 12B Components:** None

SARA 313 (40 CFR Part 372):

None known

SARA 311/312:

FIRE: YES, PRESSURE GENERATING: NO, REACTIVITY: NO, ACUTE: YES, CHRONIC: Yes

**CERCLA RQ:** Not established for Heptane; >5000 pounds if Hexane used

**OZONE DEPLETING CHEMICALS:** None

**TSCA REGULATORY:** This material or its components are listed in the TSCA inventory.

**RCRA Hazard class:** Not listed but treat as Flammable.

**Clean Air Act Sect 112 Hazardous Air Pollutants (HAPs):**

N-Hexane if used in place of n-heptane

**Volatile Organic Chemicals (VOCs):**

635 g/liter

**NSF Food Registered:**

**Category P-1 NSF Registration File Number: 137631**

**State Right to Know:**

New Jersey: 9003-29-6, 142-82-5 or 110-54-3, 68476-85-7  
Pennsylvania: 9003-29-6, 142-82-5 or 110-54-3, 68476-85-7  
Massachusetts: 9003-29-6, 142-82-5 or 110-54-3, 68476-85-7  
Rhode Island : 9003-29-6, 142-82-5 or 110-54-3, 68476-85-7

**Canadian Regulations:**

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

**WHMIS: CLASS A, B-5:**

Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects (TOXIC).

**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.

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**16. Other information**

History

**Date of printing:** November 22, 2010  
**Date of issue:** November 22, 2010  
**Date of previous issue:** No previous validation  
**Version:** 1  
**Prepared by:**



Donald Oldiges, VP of Research & Development

|              |           |                 |               |        |
|--------------|-----------|-----------------|---------------|--------|
| <b>NFPA:</b> | Health: 2 | Flammability: 3 | Reactivity: 0 |        |
| <b>HMS:</b>  | Health: 2 | Flammability: 3 | Reactivity: 0 | PPE: B |

Notice to reader:



All practical steps have been taken to ensure this data sheet and the health, safety and environmental information contained in this document is accurate as of the date specified above. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet. You should not use the product other than for the stated application or applications without seeking advice from us. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations in the country of use. Jet-Lube is not responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use have the duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. If this material is printed, circulated, distributed or copied in any manner, it is not to be modified without prior written permission, and further, it is to include the wording of the above disclaimer.