

# MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens White Lithium Grease  
MSDS NO. 4604  
Revision Date: 02/21/2007  
Date Printed: 12/30/2008

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens White Lithium Grease  
Synonyms: None  
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300  
Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Butane 106-97-8	1-6	Not Listed	Not Listed	Not Listed
Heptane 142-82-5	50-69	Not Listed	Not Listed	Not Listed
Propane 74-98-6	1-6	Not Listed	Not Listed	Not Listed
Lithium Grease 7620-77-1	45-64	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Butane 106-97-8	1-6	Not Listed	1900 mg/m <sup>3</sup> 800 ppm	Not Listed
Heptane 142-82-5	50-69	2000 mg/m <sup>3</sup> 500 ppm	1600 mg/m <sup>3</sup> 400 ppm	Not Listed
Propane 74-98-6	1-6	1800 mg/m <sup>3</sup> 1000 ppm	1800 mg/m <sup>3</sup> 1000 ppm	Not Listed
Lithium Grease 7620-77-1	45-64	Not Listed	Not Listed	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Butane 106-97-8	1000 ppm	Not Listed	Not Listed
Heptane 142-82-5	400 ppm	500 ppm	Not Listed
Propane 74-98-6	1000 ppm	Not Listed	Not Listed
Lithium Grease 7620-77-1	Not Listed	Not Listed	Not Listed

## 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Warning: Extremely Flammable. Content under pressure. This material is an eye and skin irritant. Keep away from heat, sparks and flame. Causes respiratory irritation. Possible redness and defatting may result from prolonged skin exposure to this material. Excessive inhalation causes headache, dizziness, nausea, and incoordination. Ingestion of this product may cause gastrointestinal distress with symptoms of nausea, vomiting, diarrhea and abdominal pain.

**HMIS Classification:** Health: \*2 Flammability: 4 Physical Hazard: 2  
**NFPA Rating:** Health: 2 Flammability: 4 Reactivity: 0

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## 4. FIRST AID MEASURES

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek medical attention if irritation persists.

**Ingestion:** If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention. If vomiting occurs, keep head lower than hips to prevent aspiration.

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

**Skin Contact:** Wash with soap and water for 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Remove contaminated clothing and shoes, and launder before reuse.

## 5. FIRE FIGHTING MEASURES

### Flammable Properties

**Flash Point °F(°C):** Not Determined  
**Flash Point Method:** Not Applicable  
**Flammable Limits in Air - Lower (%):** Not Determined  
**Flammable Limits in Air - Upper (%):** Not Determined  
**Autoignition Temperature °F(°C):** Not Determined  
**Extinguishing Media:** Dry chemical. Carbon dioxide. Use water spray to keep containers cool that are exposed to heat or flames. Foam.

### Protection Of Fire-Fighters:

**Special Fire-Fighting Procedures:** Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire.

**Hazardous Combustion Products:** Carbon Dioxide. Carbon Monoxide.  
**Aerosol Comments:** NFPA Level 3 Aerosol

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate protective clothing and equipment to prevent skin and eye contact.

**Spill Procedures:** Contain any liquid from leaking containers. Avoid all sources of ignition; heat, sparks and open flames.

**Action to be taken if material is released or spilled:** Do not puncture or incinerate container. Contents under pressure. Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Leaking containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.

**Environmental Precautions:** Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or streams.

## 7. HANDLING AND STORAGE

**Handling and Storage:** Caution: Contents under pressure. Keep away from heat and open flame. Use only in a well ventilated area. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Do not puncture, incinerate or store above 120 F. Exposure to high temperatures may cause bursting. DO NOT store in the passenger compartment of an automobile.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

**Eyes:** Chemical goggles; also wear a face shield if splashing hazard exists.

**Skin Protection:** Avoid skin contact. Wear protective clothing and gloves.

**Respiratory Protection:** Do not breath mist or vapor. Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White viscous liquid.

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Odor: SOLVENT  
pH Value: Not Determined  
Vapor Pressure: 46 psig @ 70 F  
Vapor Density (Air=1): Not Determined  
Boiling Point (°F): Not Determined  
Melting/Freezing Point: Not Determined  
Solubility in Water: NEGLIGIBLE  
Bulk Density at 20°C: Not Determined  
Molecular Weight: Mixture  
Specific Gravity (H2O=1): .78  
Viscosity: Not Determined.  
Evaporation Rate: Not Determined  
VOC Content(%): Not determined.  
Decomposition Temperature: Not Determined

## 10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.  
Conditions to Avoid: Keep away from heat, sparks and flame. Avoid any source of ignition. Do not expose to heat or store at temperatures above 120 F.  
Materials to Avoid: Contact with oxidizing agents. Concentrated oxygen.  
Hazardous Decomposition Products: Carbon monoxide. Silica. Formaldehyde is a byproduct of oxidative thermal decomposition.  
Hazardous Polymerization: WILL NOT OCCUR

## 11. TOXICOLOGICAL INFORMATION

### Toxicological Data:

Component	Route	Species	Dose
Butane 106-97-8	Inhalation	Rats	LC50, 658 gm/m <sup>3</sup> /4H
Heptane 142-82-5	Inhalation	Rats	LC50 103 gm/m <sup>3</sup> /4H
Propane 74-98-6	NA	NA	Not known.
Lithium Grease 7620-77-1	NA	NA	None Known

### Carcinogenicity:

Component	IARC	NTP	OSHA
Butane 106-97-8	Not Listed	Not Listed	Not Listed
Heptane 142-82-5	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed
Lithium Grease 7620-77-1	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

Remarks: Ecological testing has not been conducted on this product.

## 13. DISPOSAL CONSIDERATION

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## 13. DISPOSAL CONSIDERATION

**Waste Classification:** Not determined.  
**Waste Management:** Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts.  
**Disposal Method:** Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

**U.S. DOT:**  
**Proper Shipping Name:** ORM-D CONSUMER COMMODITY  
**Hazard Class:** ORM-D  
**UN/NA Number:** Not Applicable  
**DOT Packing Group:** Not Applicable

**IMDG:**  
**Proper Shipping Name:** Aerosols (Limited Quantity)  
**Hazard Class:** 2.1  
**Hazard Subclass:** Not determined.  
**UN No.:** UN1950  
**Packing Group:** PG II  
**Marine Pollutant:** No

## 15. REGULATORY INFORMATION

**US Federal Regulations:**

Component	SARA 313	SARA 302	TPQ	RQ
Butane 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
Heptane 142-82-5	Not Listed	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed	Not Listed
Lithium Grease 7620-77-1	Not Listed	Not Listed	Not Listed	Not Listed

**US OSHA HEALTH CLASSIFICATION:** Hazardous per OSHA 29 CFR 1910.1200  
**SARA 311/312 Hazard Categories:** Acute Health - YES, Chronic Health - NO, Fire - YES, Reactive - NO, Pressure - YES

**State Regulations:**

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Butane 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
Heptane 142-82-5	Not Listed	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed	Not Listed
Lithium Grease 7620-77-1	Not Listed	Not Listed	Not Listed	Not Listed

