

# OVEN CHAIN LUBRICANT™

## DESCRIPTION

**JET-LUBE's OVEN CHAIN LUBRICANT** evolved with the cooperative efforts of end users into a premium, effective, high viscosity lubricant that penetrates into the chain to provide optimum performance at elevated temperatures. Synthetic fluid technology was carefully balanced with USDA H-1 (incidental food contact) restrictions to produce a product that is not only clean and safe, but effectively lubricates the chain components.

Fluid lubricants rapidly lose viscosity with temperature. The viscosity loss results in a comparable loss in fluid film lubrication and increase in wear. To offset wear, many lubricants utilize organic EP anti-wear additives that include sulfur, phosphorous and nitrogen. These degrade at temperatures as low as 250°F (121°C). The degraded additives form corrosive gases that can damage equipment. In addition, these by-products are noxious and if not properly vented, can be harmful to operating personnel.

**JET-LUBE's OVEN CHAIN LUBRICANT** is derived from a carefully evolved blend of high viscosity, non-smoking [550°F (288°C)], low odor synthetic fluids and surface tension modifiers. These lower the surface tension of the high viscosity fluids allowing them to move effectively to penetrate into the links and pins of the chain and lubricate the chain roller. **OVEN CHAIN LUBRICANT** avoids the use of the potentially damaging organic additives by using a synergistic blend of micro-sized solid boundary lubricants that minimize wear by reducing metal-to-metal contact. The semifluid consistency is developed using a nonmelting, inorganic thickener that reduces drip and subsequently the potential introduction of lubricant into food products.

**JET-LUBE's OVEN CHAIN LUBRICANT** is a state-of-the-art answer to oven chain lubrication. It can also be utilized effectively in gear lubrication applications.

- Synthetic
- NSF H-1 Reg. #113601
- Contains PTFE
- Low Odor
- Reduced Smoke
- Noncorrosive
- Penetrates
- Lubricates

## PRODUCT CHARACTERISTICS

Appearance	White
Thickener	Inorganic
Fluid Type	Synthetic
Base Oil Viscosity cSt @ 40°C	ISO 460
Penetration @77°F, mm x 10 <sup>-1</sup> (ASTM D-217)	400 - 430
Dropping Point (ASTM D-566)	None
Copper Strip Corrosion (ASTM D-4048)	1A Min.
Flash Point (ASTM D-92) (282°C)	>540°F

**Service Rating**  
-25°F to 752°F  
(-32°C to 400°C)

## PACKAGING

Code No.	Container Size	Container
33216	35 lb.	Pail
33224	120 lb.	Keg
33229	400 lb.	Drum

## LIMITED WARRANTY

Jet-Lube, Inc. makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube, Inc. materials and workmanship.

This Limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube, Inc.

The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube, Inc. shall not be liable for incidental or consequential damages.

## CORPORATE LOCATIONS

Houston, Texas—World Headquarters

Maidenhead, England

Edmonton, Canada

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# JET-LUBE, INC.

## MATERIAL SAFETY DATA SHEET

**Product Name:** OVEN CHAIN LUBRICANT™  
**Chemical Family:** Synthetic Hydrogenated Homopolymer  
**Use:** Lubricating grease for use in food contact applications.

**Manufacturer/Supplier:** JET-LUBE, INC.  
**Address:** 4849 Homestead Rd., Ste. #200  
 Houston, TX, 77028 USA **Phone:** 713-674-7617  
**Emergency Phone:** 713-674-7617 **Fax:** 713-678-4604  
**Chemtrec 24 hours (USA):** 800-424-9300

Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
Nonhazardous Blend	68037014/63148629 7631869/57556 9002840	100	UN	UN	UN

### Main Hazards—Health Effects

**Eyes:** May cause irritation. **Inhalation:** Viscous nature may block breathing passages if inhaled. **Ingestion:** May cause diarrhea.  
**Skin:** For hypersensitive persons, may irritate the skin after prolonged periods of contact.

**Eyes:** Flush with water until all residual material is gone. If irritation persists, seek medical help. **Inhalation:** Clear air passage. If respiratory difficulty continues, seek medical help. **Ingestion:** Wash out mouth immediately. Consult physician. **Skin:** Wash thoroughly with hand cleanser, followed by soap & water. Contaminated clothing should be dry cleaned before reuse.

**Extinguishing Media:** Foam, dry powder, Halon®, carbon dioxide, sand, earth & water mist.  
**Unsuitable Extinguishing Media:** Water jet. **Protective Equipment for Fire fighting:** Self-contained breathing apparatus.

**Personal Precautions:** Wear gloves & protective overalls. **Environmental Precautions:** Do not allow it to enter drains.  
**Spillage:** Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

**Handling:** No special handling precautions necessary. **Storage:** Do not store at elevated temperatures.

**Respiratory Protection:** None needed. **Hand Protection:** Protective gloves for hypersensitive persons.  
**Eye Protection:** Glasses, if applied to parts in motion. **Body Protection:** Overalls.

**Physical State:** Semisolid soft paste **Color:** Opaque, white/off-white **Odor:** Mild **pH:** Neutral **Boiling Range/Point °F (°C):** >600 (316)  
**Melting Point °F (°C):** None **Flash Point (COC) °F (°C):** >575 (302) **Autoignition Temperature °F (°C):** >600 (316)  
**Explosive Properties:** LEL: 0.9% UEL: 7% **Evaporation Rate (Butyl Acetate):** <0.01 **Partition Coefficient (Log Pow):** N/A  
**Vapor Pressure (kPa):** <0.01 **Percent Volatiles:** Nil **Density (g/cm³):** 0.90 **Flammability:** Not flammable at ambient temp.  
**OAR Value:** N/A **Oxidizing Properties:** None **Water Solubility:** Nil **Vapor Density:** >5

**Stability:** Chemically stable under normal conditions. No photoreactive agents. **Conditions to Avoid:** Powerful sources of ignition and extreme temps. **Materials to Avoid:** Strong inorganic & organic acids, oxidizing agents. **Hazardous Decomposition Products:** Burning generates smoke, airborne soot, hydrocarbons and oxides of carbon. Residue mainly comprised of soot & oxides.

**Acute Toxicity:** Not known. **Irritancy—Skin:** Very mild. **Skin Sensitization:** Not known. **Subacute/Sub-chronic Toxicity:** Not known.  
**Genotoxicity:** None known. **Chronic Toxicity:** None known. **California Prop 65:** N/A  
**Carcinogen:** NTP: No IARC: No OSHA: No **EC Class (67/548/EEC):** No **Allergens:** None known.  
**LC-50:** >4000mg/kg—extrapolated from component data (Mysidopsis Bahía). **LD-50:** N/A

**Possible Effects:** None **Behavior:** Relatively well behaved. Bioaccumulation potential nil.  
**Environmental Fate:** Highly unlikely to cause contamination. Nontoxic to marine or land organisms.

**Product Disposal:** Do not incinerate. Contact waste disposal company or local authority for advice. **Container Disposal:** Pails without liner—see Product Disposal section above. Pails with plastic liner—pail may only be disposed of via standard waste disposal services, recycled or reused. **Liner—see Product Disposal section above.**

Not classified as hazardous for transport. **D.O.T.:** Nonhazardous **UN No.:** Nonhazardous **Air Transport (ICAO & IATA):** Nonhazardous  
**Sea Transport (IMO & IMDG):** Nonhazardous **Road & Rail Transport (ADR/RID):** Nonhazardous

**Labeling Information:** None needed **EC Annex 1 Classification:** Not Applicable. **R Phrases:** R22—harmful if swallowed.  
**S Phrases:** None applicable, as known. **Ozone Depleting Chemicals:** Not applicable. **TSCA:** All components are listed.  
**WHMIS (Canada):** Not controlled. **Canadian DSL:** All components listed. **40 CFR Part 372 (SARA Section 313):** N/A  
**CERCLA:** Nonhazardous **RCRA Hazard Class:** Nonhazardous **SARA 311/312:** None **TSCA 12B Components:** None

**New Jersey Right To Know:** See Section II

### LEGEND


- I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY
- II. COMPOSITION INFORMATION ON INGREDIENTS
- III. HAZARDS IDENTIFICATION
- IV. FIRST AID MEASURES
- V. FIRE FIGHTING MEASURES
- VI. ACCIDENTAL RELEASE MEASURES
- VII. HANDLING AND STORAGE
- VIII. EXPOSURE CONTROL/PERSONAL PROTECTION
- IX. PHYSICAL AND CHEMICAL PROPERTIES
- X. STABILITY AND REACTIVITY
- XI. TOXICOLOGICAL INFORMATION
- XII. ECOLOGICAL INFORMATION
- XIII. WASTE DISPOSAL
- XIV. TRANSPORT INFORMATION
- XV. REGULATORY INFORMATION
- XVI. OTHER INFORMATION

### HMIS SYMBOL

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPI	N/A

### NFPA SYMBOL



**Signature:**   
**Prepared by:** Donald A. Oldiges  
**Date Issued:** March 31, 2004

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