

GEAR GUARD™

PASTE OPEN GEAR LUBRICANT

DESCRIPTION

JET-LUBE's GEAR GUARD™ is a paste-like, viscous lubricant for reducing friction and wear. It is a heavy-duty compound, specially prepared to penetrate pores of metal, with exceptional "stay-put" characteristics. It provides maximum lubrication and shock-load protection, reduces gear noise, lubricates, prevents scoring and welding of gear teeth. **GEAR GUARD** penetrates strands of wire rope and cable to replenish the original lubricant in the core itself.

GEAR GUARD assures a smooth, long-lasting, economical and effective coating. Its black color guides proper coverage, allowing easy touch up. It does not have to be heated. **GEAR GUARD** resists heat and pressure, will not wash or wear off because of weather, and will not break down after repeated workings. It contains rust-preventing ingredients and is moisture resistant, actually displacing water.

CHARACTERISTICS

Quality ingredients for optimum lubrication and resistance. The ingredient, molybdenum disulfide (MoS₂) is twice as "slippery" as graphite, has an affinity for ferrous metals, and bonds itself to steel working surfaces. MoS₂ protects working surfaces from frictional wear, reduces fret-corrosion, and will sustain lubrication when the film of a conventional lubricant has been displaced for any reason.

GEAR GUARD also contains a special grease additive, **JET-LUBE's CZ-EX®**, an extreme pressure additive. **CZ-EX** increases performance because it maintains the proper dispersion and suspension of solid ingredients. It flows evenly and will not drip, assuring that the surface receives maximum protection.

APPLICATIONS

JET-LUBE's GEAR GUARD is used on open gears, chains, cables, or wire ropes. It is ideal for fifth wheels of tractors and trucks, leaf springs, drive chains, screw threads, flexible couplings, and die-set leader pins. It can be used on racks and pinions, edges, roller gears, agitator drive and winches.

Application by aerosol spray lets it dry quickly, preventing dust contamination and dripping. "Thin-film" lubrication reduces costly power loss through "in-lubricant" friction. This method substantially reduces application time and eliminates messy handling, brushes, paddles, and waste. Contains nonfluorocarbon propellants.

PRODUCT CHARACTERISTICS

	FLUID TYPE	
Aerosol/Nonaerosol		Petroleum Oil
	SPECIFIC GRAVITY	
Aerosol		1.18
Nonaerosol		1.10
	DENSITY (lbs./gal.)	
Aerosol		9.8
Nonaerosol		9.15
	RUST TEST (ASTM D-665)	
Aerosol/Nonaerosol		Pass
	4-BALL EP TEST (ASTM-2783) WELD POINT, kfg	
Aerosol/Nonaerosol		620
	FLASH POINT (ASTM D-92)	
Aerosol/Nonaerosol		>430°F (221°C)
	COLOR/APPEARANCE	
Aerosol/Nonaerosol		Black, Sticky Semi-Fluid
	SPRAY PATTERN	
Aerosol		2 to 4 inch cone
	PROPELLANT	
Aerosol		Hydrocarbon

SERVICE RATING -25°F (-32°C) to 350°F (175°C) Color: Black

PACKAGING

Code No.	Container Size	Container
17941	12 oz.	Aerosol
17909	9 lb.	Pail
17916	35 lb.	Pail

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

JET-LUBE, INC.
 4849 HOMESTEAD RD.,
 P.O. BOX 21258 (77226-1258)
 HOUSTON, TX 77028

WATS: 800-538-5823
 PHONE: 713-674-7617
 FAX: 713-678-4604
 E-MAIL: sales@jetlube.com
 www.jetlube.com

JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

Product Name: GEAR-GUARD™
Chemical Family: Petroleum based lubricating oil
Use: Wire rope and chain lubricant

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
Petroleum Oil	64742525/64741566	35-45	Oil Mist TWA-5mg/M ³	N/A	N/A
Halocarbon	79016	15-20	200 ppm	550 ppm	
A70 Hydrocarbon Propellant	68476868	25	1000 ppm	1000 ppm	
Nonhazardous Others	7782425/1317335 68511502/68953852	20-25			

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: Semi-viscous Fluid **Color:** Black **Odor:** Petroleum **pH:** Neutral **Boiling Range/Point °F (°C):** >165 (74)

Melting Point °F (°C): UN **Flash Point (COC) °F (°C):** 430 (221) **Propellant Flash Point °F (°C):** <076 (-60)

Autoignition Temperature °F (°C): Aero UN Bulk >500 (260) **Explosive Properties:** LEL: Aero 8 Bulk 0.9% UEL: Aero 10.5 Bulk 7%

Evaporation Rate (Butyl Acetate): Aero <0.05 Bulk <0.01 **Partition Coefficient (Log Pow):** N/A **Vapor Density:** >5

Vapor Pressure (kPa): Aero <0.05 Bulk <0.01 **Percent Volatiles:** Aero Bulk 15 **Density (g/cm³):** Aero Bulk 9.15

Flammability: Not flammable at ambient temp. **OAR Value:** Aero 5 Bulk N/A **Oxidizing Properties:** None **Water Solubility:** Aero & Bulk Nil

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

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:** TCE (aerosol) Carcinogen **Allergens:** None known.

Carcinogen: NTP: (Aerosol) 2A IARC: (Aerosol) Group 3: Not classifiable as human carcinogen (1997) **ACGIH:** (Aerosol) A5: Not classifiable as human carcinogen **EC Class (67/548/EEC):** No **LC-50:** >2000mg/kg—extrapolated from component data. **LD-50:** N/A

Possible Effects: In extreme cases, may generate oil fractions that could act as a marine pollutant. Occurrences of this nature are highly unlikely. **Behavior:** Relatively well behaved. Bioaccumulation potential nil. **Environmental Fate:** Due to its fluid nature and specific gravity, this product will float and spread across water making it a nuisance contaminant. It's not thought to be toxic 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.

D.O.T.: Aero Consumer Commodity ORM-D Bulk Nonhazardous **UN No.:** Aero Class 2 UN1950 Bulk N/A **Road & Rail Transport (ADR/RID):** N/A

Air Transport (ICAO & IATA): Aero UN 1950, Class 2 Bulk N/A **Sea Transport (IMO & IMDG):** Aero Class 2 UN1950 Bulk N/A


Labeling Information: None needed **EC Annex 1 Class:** N/A **Ozone Depleting Chemicals:** N/A **R Phrases:** Aero N/A Bulk R-22 harmful if swallowed (could block passages) **S Phrases:** Aero S-3 keep cool, S-16 keep away from ignition sources Bulk N/A, as known.

TSCA: All components are listed. **WHMIS (Canada):** Aero Class B, Div B-3 Bulk Not controlled. **Canadian DSL:** All components listed.

40 CFR Part 372 (SARA Section 313): TCE (aerosol) **CERCLA:** Nonhazardous **RCRA Hazard Class:** Nonhazardous

SARA 311/312: None **TSCA 12B Components:** None

SDS first issued. SDS data revised. **New Jersey Right To Know:** See Section II

Signature: 
Prepared by: Donald A. Oldiges
Date Issued: September 3, 2004

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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	1
FLAMMABILITY	4
REACTIVITY	0
PPI	G

NFPA SYMBOL

