

JET-LUBE®

WIRE LINE LUBRICANT ECF

Ospar Commission-HOCNF

(Harmonized Offshore Chemical Notification Format)

CLASSIFICATION: "Yellow" rating for Norway

CLASSIFICATION: "E" for The United Kingdom
& The Netherlands

DESCRIPTION

JET-LUBE® WIRE LINE LUBRICANT ECF is a unique product for wire line applications where a grease-type lubricant is required. Specially formulated for slick line, electric line, and braided line, this new-generation formula is certified to meet the "Yellow" environmental category for Norway, conforms to the Norwegian requirements for biodegradability, and passes the biotoxicity test. Additional test information is available on request. **WIRE LINE LUBRICANT ECF** is H₂S inhibited and has unique capabilities as a preservative against rust and corrosion. It also offers excellent protection against extended exposure to the elements and UV rays.

WIRE LINE LUBRICANT ECF can be applied by hand or through a pneumatic lubrication system. This easy-flow formula will stick to the wire line and penetrate the wire core for added protection and wire line life.

- Easy to apply
- Nonconductive
- Outstanding rust prevention
- Norwegian "Yellow" environmentally safe
- Wide temperature service
- Extremely water resistant
- Contains no VOC's

APPLICATIONS

WIRE LINE LUBRICANT ECF is ideally suited for the following applications:

- Corrosive Environments
- Braided Line
- Temperature Surveys
- Gas Lift Services
- Deep Water Wire Line
- Slick Line
- Electric Line
- Perforating
- Fishing Operations

PRODUCT CHARACTERISTICS

Color	Lt. beige
Appearance	Buttery grease
Cone Penetration (ASTM D-217)	
Unworked	295 - 340
60 Strokes	310 - 330
10,000 Strokes	±10%
Oil Separation, 100°C 24 hrs.	5% max.
Load Wear Index	31 typ.
Salt Fog Corrosion Resistance 20% NaCl, 100°F	>1000 hrs.
Low Temperature Flexibility	Pass
Volatile Matter	<2%
Service Rating	-20°F to 500°F -29°C to 260°C

Note: Not for use with oxygen or strong oxidizers such as hydrogen peroxide or sulfuric acid.

PACKAGING

Code No.	Net Weight	Unit Size
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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: WIRE LINE LUBRICANT ECF Chemical Family: Synthetic & vegetable oil based lubricating grease Use: Lubricant and preservative	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
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Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
NONE					
II Nonhazardous Components					
Lubricating Grease (Contains no carcinogens)	74869-21-9	100	NA	NA	NA

III Main Hazards—Health Effects
Eyes: May cause irritation. **Inhalation:** Viscous nature may block breathing passages if inhaled.
Ingestion: May cause diarrhea. **Skin:** Possible rash for persons with hypersensitivity.

IV 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.

V 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.

VI Personal Precautions: Wear gloves & protective overalls. **Environmental Precautions:** Nonhazardous **Spillage:** Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

VII Handling: Do not allow it to enter drains (it may clog drain) **Storage:** Do not store at elevated temperatures.

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

IX Physical State: Semisolid paste **Color:** Pale Red **Odor:** Neutral **pH:** Neutral **Boiling Range/Point °F (°C):** <600 (316)
Melting Point °F (°C): None **Flash Point (COC) °F (°C):** 500 (260) **Autoignition Temperature °F (°C):** >500 (260)
Explosive Properties: LEL: 0.9% UEL: 7% **Evaporation Rate (Butyl Acetate):** <0.01 **Partition Coefficient (Log Pow):** N/A
Vapor Pressure (kPa): <0.01 **% Volatiles:** Nil **Density (g/cm³):** 0.97 **Flammability:** Not flammable at ambient temperature.
OAR Value: N/A **Oxidizing Properties:** None **Water Solubility:** Not readily soluble **Vapor Density:** >5

X 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 and nitrogen. Residue mainly comprised of mineral oxides.

XI Acute Toxicity: Not known **Irritancy—Skin:** None known **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 Classification (67/548/EEC): No **Allergens:** None known **LC-50:** >4000mg/kg—extrapolated from component data. **LD-50:** N/A


XII Possible Effects: Tested and shown nonhazardous in a marine environment.
Behavior: Relatively well behaved. Bioaccumulation nil.
Environmental Fate: Will not cause notable contamination. Nontoxic to marine or land organisms.

XIII 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.

XIV 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

XV Labeling Information: None needed **EC Annex 1 Classification:** Not Applicable. **R Phrases:** Not applicable as known.
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

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

Signature: 
Prepared by: Donald A. Oldiges
Date Issued: March 28, 2007

As of issue date, the information contained herein is accurate and reliable to the best of JET-LUBE'S knowledge. JET-LUBE® does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof. It is the user's responsibility to satisfy itself that the information offered for its consideration is suitable for its particular use.

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	B

