

JET-LUBE[®] **JACKING SYSTEM GREASE[™] ECF[™]**

OSPAR Commission - HOCNF

Classification - "Yellow" Rating for Norway (Pending)

- "E" for the United Kingdom & The Netherlands (Pending)

DESCRIPTION

JET-LUBE[®] JACKING SYSTEM GREASE[™] ECF[™] is safe to use in offshore applications since it is metal free and is formulated to conform to the strict North Sea Environmental Guidelines. It utilizes a water-resistant, calcium thickener that is enhanced to improve adhesion and provide greater protection against water washoff, wear, and corrosion. **JET-LUBE JACKING SYSTEM GREASE ECF** contains specially selected solid natural boundary lubricants to provide outstanding galling resistance and lubrication properties. The solid boundary and organic EP additives synergistically combine to produce a superior lubricating film with high-load and low-wear characteristics.

APPLICATIONS

JET-LUBE JACKING SYSTEM GREASE ECF is designed to lubricate a wide array of heavily loaded gear applications. It can also be used on slides, jacking systems, cantilever type rigs and assemblies, nuts, bolts, and a wide range of other applications - making **JET-LUBE JACKING SYSTEM GREASE ECF** a nearly universal product.

- Excellent Environmental Properties
- High Load Resistant
- Water Resistant
- Corrosion Resistant
- Nonmetallic
- Safe for Offshore Personnel
- Biodegradable, non-bioaccumulative
- Outstanding Film Strength
- Easy to Apply

PRODUCT CHARACTERISTICS

Appearance	Beige Tacky Grease
Fluid Type	Synthetic & Vegetable
Thickener	Calcium Sulfonate Complex
Specific Gravity	1.26
Density (lbs/gal)	10.55
Cone Penetration @ 77°F (ASTM D-217)	300 - 330
Dropping Point (ASTM D-2265)	>200°F (93°C), typical
4-Ball (ASTM D-2596) Weld Point, kgf (N)	≥ 800 (7845)
Gas Evolution	None, typical
Oil Separation	<1%, typical
Water Leaching 2 hrs. @ 150°F	<5%, typical
Service Rating	-4°F (-20°C) to 300°F (149°C)

PACKAGING

Code No.	Container Size	Container
25815	44 lb. (20 Kg.)	Pail
25816	5 gal.	Pail
25824	15 gal.	Drum
25829	55 gal.	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

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

OILFIELD

OILFIELD

OILFIELD

OILFIELD

OILFIELD

JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

I **Product Name:** **JACKING SYSTEM GREASE™ ECF**
Chemical Family: Complex grease base
Use: Thread lubricant and sealant.

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	74869-21-9 7789-75-5	100%	N/A	N/A	N/A
Hazardous Components	None				

III **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.

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:** 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.

VII **Handling:** No special handling precautions necessary. **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:** Beige **Odor:** Mild **pH:** Neutral **Boiling Range/Point °F (°C):** UN
Melting Point °F (°C): >400 (204) **Flash Point (COC) °F (°C):** >430 (221) **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 **V.O.C. Content:** Nil **Density (g/cm³):** 1.26 **Flammability:** Not flammable at ambient temperature.
OAR Value: N/A **Oxidizing Properties:** None **Water Solubility:** Nil **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. **Hazardous Decomposition Products:** Burning generates smoke, airborne soot, hydrocarbons & oxides of carbon, sulfur & nitrogen. Residue mainly comprised of soot & mineral oxides.

XI **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 Classification (67/548/EEC): No **Allergens:** None known. **LC-50:** >4000mg/l - extrapolated from component data. **LD-50:** N/A

XII **Possible Effects:** None

Behavior: Relatively well behaved. Bioaccumulation potential nil.

Environmental Fate: Highly unlikely to cause widespread 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:** N/A

S Phrases: N/A, as known. **Ozone Depleting Chemicals:** N/A **TSCA:** All components are listed. **TSCA 12B Components:** None

WHMIS (Canada): Not controlled. **Canadian DSL:** All components listed. **40 CFR Part 372 (SARA Section 313):** N/A

SARA 311/312: None **CERCLA:** Nonhazardous **RCRA Hazard Class:** Nonhazardous

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

Signature: 
Prepared by: Donald A. Oldiges
Date Issued: December 8, 2008

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

