# **RUN-N-SEAL**<sup>®</sup> **ECF**<sup>™</sup> Tubing & Casing Running Compound For Thread Seal Connection Designs

Ospar Commission-HOCNF (Harmonized Offshore Chemical Notification Format) CLASSIFICATION: "Yellow" rating for Norway CLASSIFICATION: "E" for The United Kingdom & The Netherlands

## DESCRIPTION

**RUN-N-SEAL<sup>®</sup> ECF<sup>™</sup>** has been specifically formulated to meet the performance requirements of proprietary thread seal connection designs utilizing today's high-performance materials, which include "super" chrome and high-alloy steels. The combination of small and large particles provides optimum sealability on 8-round and buttress thread forms.

**RUN-N-SEAL ECF**'s advanced base grease is a carefully selected balance of synthetic and vegetable oils with our **Extreme** base grease thickener technology coupled with innovative solid lubricants. The result is superior lubrication under high loads with galling resistance equivalent to heavy metal-based compounds in a totally metal-free formulation. This cutting-edge technology provides a high affinity to metal surfaces with a high added-solids content. In addition, there is a large percentage of submicron particles formed by chemical reaction; creating a film that gives consistent frictional performance without restricting proper engagement of the connection contact surfaces. In lab tests, **RUN-N-SEAL ECF** has a friction factor equivalent to API MODIFIED. However, there may be connection types with which a higher/lower friction factor is incurred

- · Biodegradable
- Metal free
- · Frictional properties similar to API MODIFIED
- · High film strength to protect against galling
- High solids content to accommodate thread seal connection design requirements
- Ideal for use on high-chrome connections
- · Sticks to wet or oily threads

## **APPLICATIONS**

**RUN-N-SEAL<sup>®</sup> ECF** is recommended for use on thread seal connections such as 8-round, buttress, and DINO VAM<sup>®</sup>.

### **PRODUCT CHARACTERISTICS**

Color	Dark Gray to Black		
Thickener	Complex Thickeners		
Fluid Type (oil)	Synthetic & Vegetable		
Dropping Point (ASTM D-2265)	374°F (190°C)		
Specific Gravity, typical	1.32		
Density (lb/gal), typical	11.0		
Oil Separation (ASTM D-6184)	<3.0		
Wt. % Loss @ 212°F (100°C)			
Flash Point (ASTM D-92)	>450°F (232°C)		
NLGI Grade	1		
Penetration @77°F	310 - 340		
(ASTM D-217)			
Copper Strip Corrosion	1B		
(ASTM D-4048)			
4-Ball (ASTM D-2596)			
Weld Point, kgf	800 typical		
Salt Fog Resistance	5% NaCl >2000 hrs.,		
(ASTM B-117)	20% NaCl >750 hrs.		
Service Rating	-20°F (-29°C) to		
	500°F (260°C)		

Friction Factor\*

Relative to API-Modified

\* The frictional properties can vary from one connection design to another. As such, one should test the torque required for proper engagement prior to running, or consult the connection manufacturer.

#### **Thixotropic - Stir Well Before Using**

#### PACKAGING

Code No.	<b>Container Size</b>	Container	
29214	12.5 Kg.	Pail	
29215	20 Kg.	Pail	
29228	180 Kg.	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 Phone: 44.1628.631913

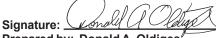
> JET-LUBE, INC. 4849 HOMESTEAD RD., P.O. BOX 21258 (77226-1258) HOUSTON, TX 77028

Edmonton, Canada Phone:780.463.7441

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

# **JET-LUBE, INC.** MATERIAL SAFETY DATA SHEET

-	Product Name: RUN-N-SEAL <sup>®</sup> ECF <sup>™</sup> Chemical Family: Complex grease base <u>Use:</u> Thread lubricant and sealant.			Manufacturer/Supplier:   JET-LUBE, INC.     Address:   4849 Homestead Rd., Ste. #200     Houston, TX, 77028 USA   Phone:     T13-674-7617   Fax:     Chemtrec 24 hours (USA):   800-424-9300				
-	Hazardous Components No hazardous compounds Lubricating grease (No carcinogens)	CAS No. 7440-44-0; 65996-61-4 7789-75-5;7782-42-5 74869-21-9	<b>Wt%</b> 100	OSHA PEL N/A	ACGIH TLV N/A	Other Limits of Exposure N/A		
	Main Hazards-Health Effects   Eyes: May cause irritation.   Inhalation: Viscous nature may block breathing passages if inhaled.   Skin: For hypersensitive persons, may irritate the skin after prolonged periods of contact.							
2	<b>Eyes:</b> Flush with water until all residual material is gone. If irritation persists, seek medical help. <b>Inhalation:</b> Clear air passage. If respiratory difficulty continues, seek medical help. <b>Ingestion:</b> Wash out mouth immediately. Consult physician. <b>Skin:</b> Wash thoroughly with hand cleanser, followed by soap & water. Contaminated clothing should be dry cleaned before reuse.							
P	<b>Extinguishing Media:</b> Foam, dry powder, Halon <sup>®</sup> , carbon dioxide, sand, earth & water mist. <b>Unsuitable Extinguishing Media:</b> Water jet. <b>Protective Equipment for Fire fighting:</b> Self-contained breathing apparatus.							
F	Personal Precautions: Wear gloves & protective overalls. Environmental Precautions: None Spillage: Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.							
F	Handling: No special handling precautions necessary. Storage: Do not store at elevated temperatures.							
B	Respiratory Protection:   None needed.   Hand Protection:   Protective gloves for hypersensitive persons.     Eye Protection:   Glasses, if applied to parts in motion.   Body Protection:   Overalls.							
X	Physical State: Semi-solid paste Color: Dark Gray to Black Odor: Canola 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): <1   Vapor Pressure (kPa): <0.01 Percent Volatiles: Nil Density (g/cm³): 1.28 Flammability: Not flammable at ambient temperature.   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 & extreme temps. Materials to Avoid: Strong inorganic & organic acids, oxidizing agents. Hazardous Decomposition Products: Burning generates smoke, airborne soot, hydrocarbons & oxides of carbon, sulfur & nitrogen. Residue mainly comprised of soot & mineral oxides.							
R	Acute Toxicity: Not known. <u>Irritancy–Skin:</u> Very mild. <u>Skin Sensitization:</u> Not known. <u>Subacute/Sub-chronic Toxicity:</u> Not known. <u>Genotoxicity:</u> None known. <u>Chronic Toxicity:</u> None known. <u>California Prop 65:</u> N/A <u>Carcinogen:</u> NTP: No IARC: No OSHA: No <u>EC Classification (67/548/EEC):</u> No <u>Allergens:</u> None known. <u>LC-50:</u> >4000mg/kg—extrapolated from component data. <u>LD-50:</u> N/A							
X	Possible Effects: None   Behavior: Relatively well behaved. Bioaccumulation potential nil.   Environmental Fate: Highly unlikely to cause noteable contamination. Nontoxic to marine or land organisms.							
Į	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.							
<b>X</b>	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							
X	Labeling Information: None needed EC Annex 1 Classification: Not Applicable. R Phrases: Not registered.   S Phrases: S36/37/39 - Wear suitable protective clothing, gloves, and eye/face protection. 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 311/312: None TSCA 12B Components: None							
<b>E</b>	SDS first issued. SDS data revi	sed. New Jersey Righ	t To Know: See	Section II				
-				GEND	OMPANY			



Prepared by: Donald A. Oldiges Date Issued: September 10, 2008

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- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY П. COMPOSITION INFORMATION ON INGREDIENTS

FLAMMABILITY

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PERSONAL PROTECTION INDEX

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REACTIVITY

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REACTIVITY

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