ECO-SAFE NONMETALLIC THREAD COMPOUND

DESCRIPTION

ECO-SAFE™ nonmetallic thread compound is a premium quality, nonmetallic compound containing carbon based fibers and additives and other natural extreme pressure and anti-wear additives. These are blended into JET-LUBE's high temp calcium complex base grease. This new base grease offers the additional advantage of superior adhesion to wet steel surfaces, resistance to water wash-off, and most drilling muds. Especially effective for invert or high-pH muds.

- Excellent performance on high-chrome or nickel alloys
- Contains no metals
- NSF H2 Registered
- Extreme-pressure additives provide additional protection against seizing and galling
- Completely biodegradable
- Nontoxic

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- High film strength
- High frictional properties ideal for casing drilling applications

With ECO-SAFE, "metal free" doesn't mean "low performance". It facilitates a consistent, easy make up on par with traditional thread compounds without the cost volatility and environmental concerns associated with metallic compounds. ECO-SAFE offers excellent protection to threaded connections and the environment.

PRODUCT CHARACTERISTICS

Thickener Fluid Type	Calcium Complex Petroleum
Dropping Point (ASTM D-2265)	>450°F (232°C)
Specific Gravity, typical	1.30 ` ´
Density (lb/gal), typical	10.30
Oil Separation (ASTM D-6184)	<3.0
WT. % Loss @ 212°F (100°C)	
Flash Point (ASTM D-92)	>430°F (221°C)
NLGI Grade	1 .
Penetration @ 77°F	300 - 330
(ASTM D-217)	
Copper Strip Corrosion	1A, typical
(ASTM D-4048)	
Service Temperature	
Oilfield/Mining/Construction Drilling	-20°F (-29°C) to
	500°F (260°C)

Shelf Life: Minimum two years from manufacture date.

PACKAGING

Code No.	Container Size	Container
14523	1 Gal.	Pail
14512	2 Gal.	Pail
14515	5 Gal.	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.

Edmonton, Canada

CORPORATE LOCATIONS

Houston, Texas-World Headquarters

Maidenhead, England

SUITE 232

JET-LUBE, INC. 4849 HOMESTEAD RD., HOUSTON, TX 77028

WATS: 800-538-5823 PHONE: 713-670-5700 FAX: 713-678-4604 sales@jetlube.com www.jetlube.com



JET-LUBE, INC. MATERIAL SAFETY DATA SHEET

Chemical Family: Complex grease base Use: Thread lubricant and sealant, anti-seize compound Manufacturer/Supplier: JET-LUBE, INC. Address: 4849 Homestead Rd., Ste. #232 Houston, TX, 77028 USA Phone: 713-670-5700 Emergency Phone: 713-670-5700 Fax: 713-678-4604 Chemtrec 24 hours (USA): 800-424-9300 Outside the USA: 703-527-3887

			Outside th	<u>e USA</u> : 703-527-388	7
Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
Lubricating Grease	74869219	45-50	N/A	N/A	N/A
Nonhazardous Blend	14807966/13463677 7789755	40-60			
Main Hazards-Health EffectsEyes:May cause irritation.IntSkin:For hypersensitive person				inhaled. Ingestion:	May cause diarrhea.
Eyes: Flush with water until all r difficulty continues, seek medical cleanser, followed by soap & wa	help. Ingestion: Wash	i out mouth im	mediately. Consult p	hysician. <u>Skin:</u> Wa	
Extinguishing Media: Foam, d Protective Equipment for Fire				st. <u>Unsuitable Extin</u>	guishing Media: Water jet.
Personal Precautions: Wear g up bulk, then wipe up remainder	•				
Handling: No special handling	precautions necessary.	<u>Storage:</u> Do	not store at elevated	temperatures.	
Respiratory Protection: None Eye Protection: Glasses, if app			tection: Protective (tection: Overalls.	gloves for hypersensit	ive persons.
Physical State: Semisolid paste Melting Point °F (°C): >400 (2 Explosive Properties: LEL: 0. Vapor Pressure (kPa): <0.01	04) <u>Flash Point (CO0</u> 9% UEL: 7% <u>Evapo</u> <u>V.O.C. Content:</u> Nil	<u>C) °F (°C):</u> >₂ ration Rate (Density (g/cr	30 (221) <u>Autoig</u> Butyl Acetate): <0.0 n ³): 1.26 Flammab	nition Temperature ° 01 Partition Coeffic	F (°C): >500 (260)
Stability: Chemically stable unditemps. temps. Materials to Avoid: Str smoke, airborne soot, hydrocarbor Acute Toxicity: Not known. I Genotoxicity: None known. Chemical Str Chemical Str Classification (67/548/EEC): Str Str Str	ong inorganic & organic ns & oxides of carbon, s rritancy–Skin: Very mi ronic Toxicity: None kr	acids, oxidizin <u>ulfur & nitroge</u> Id. <u>Skin Se</u> nown. <u>Califor</u>	g agents. <u>Hazardou</u> n. Residue mainly co nsitization: Not kno nia Prop 65: N/A <u>C</u>	s Decomposition Pro mprised of soot & min wn. <u>Subacute/Sub-c</u> arcinogen: NTP:	oducts: Burning generates eral oxides. chronic Toxicity: Not known No IARC: No OSHA: No
Possible Effects: None Behavior: Relatively well behave Environmental Fate: Highly unl			on. Nontoxic to mari	ne or land organisms.	
Product Disposal: Do not incin Container Disposal: Pails withor waste disposal services, recycled	out liner-see Product Dis	posal section	above. Pails with pla		ly be disposed of via standard
Not classified as hazardous for tr Sea Transport (IMO & IMDG):			No.: Nonhazardous il Transport (ADR/R) & IATA): Nonhazardous
Labeling Information: None ne S Phrases: N/A, as known. Oz WHMIS (Canada): Not controlle SARA 311/312: None CERCL	cone Depleting Chemic d. <u>Canadian DSL:</u> All c	als: N/A <u>TS</u> components lis	CA: All components ted. 40 CFR Part 37		B Components: None
SDS first issued. SDS data re-	vised. <u>New Jersey Rig</u>	ht To Know:	See Section II		
ignature: <u>conall A Ola</u> repared by: Donald A. Oldige: ate Issued: September 29, 2	II. III. III. <	COMPOSITION INFOR HAZARDS IDENTIFIC, FIRST AID MEASURES FIRE FIGHTING MEAS ACCIDENTAL RELEASE HANDLING AND STOP	SURES E MEASURES	D COMPANY	HMIS SYMBOL HEALTH 1 FLAMMABILITY 1 REACTIVITY 0 PPI B NFPA SYMBOL

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.

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