

J-75[®] & J-89[™]

LEAD FREE DRILL STEEL LUBRICANTS

DESCRIPTION

JET-LUBE[®] J-75[®] & J-89[™] Drill Steel Lubricants are environmentally preferred, lead free compounds specifically designed for percussion drilling. Both formulations are highly fortified to provide excellent resistance to shock, galling and seizing. Their anti-friction properties are unsurpassed while providing easy thread assembly and disassembly.

Under makeup pressure both **J-75** and **J-89** literally "plate" and form a tenacious armored coating that eliminates metal-to-metal contact while penetrating voids, surface imperfections and score marks to increase thread life on steel bits, joints and couplings.

J-75 and **J-89** Drill Steel Lubricants provide yesterday's leaded performance in today's lead free environment. Both formulations makeup easy, breakout with less torque, and resist water washaway due to their state-of-the-art aluminum complex thickener.

- Lead Free
- Retards wear
- Prevents metal-to-metal contact
- Will not run out of hot threads
- Will not burn away
- Water resistant
- Prevents rust and corrosion

APPLICATIONS

J-75 and **J-89** Lead Free Drill Steel Lubricants are recommended for percussion rock drilling, blast hole drilling, road construction, logging, mining, coal drilling, pneumatic and tract drilling.

J-75 (brushable) and **J-89** (pumpable) Drill Steel Lubricants provide positive protection to 500°F (**J-75**)/450°F (**J-89**) and will not run out or metal out of hot threads. The superior anti-friction properties of both products reduce thread wear and lengthen steel and coupling life.

J-75 Drill Steel Lubricant	J-89 Drill Steel Lubricant
BRUSHABLE FORMULA	PUMPABLE FORMULA

PRODUCT CHARACTERISTICS

	J-75	J-89
Thickener	Alum. Comp.	Alum. Comp.
Fluid Type	Petroleum	Petroleum
Color/Appearance	Black	Black
Dropping Point (ASTM D-566)	500°F (260°C)	450°F (232°C)
Specific Gravity	1.19	1.19
Density (lbs/gal) Typical	9.9	9.9
Oil Separation, Wt. % Loss @ 212°F (100°C) (ASTM D-6184)	<1%	<3%
Flash Point, Typ. (ASTM D-92)	>430°F (221°C)	>430°F (221°C)
Water Spray-off (ASTM D-4049)	<10%	<10%
Penetration @ 77°F (25°C) (ASTM D-217) mm x 10 ⁻¹	235 - 265	290 - 320
Copper Strip Corrosion (ASTM D-4048)	1A	1A
Shell 4-Ball (ASTM D-2596)		
Weld Point, kfg	620	800
Load Wear Index	92	129

PACKAGING

Code No.	Container Size	Container
24823	1 gal.	11 lbs.
24812	2 gal.	22 lbs.
24815	5 gal.	54 lbs.
24423	1 gal.	11 lbs.
24412	2 gal.	22 lbs.
24415	5 gal.	54 lbs.

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: J-75® & J-89™
Chemical Family: Petroleum based thread compound & sealant
Use: Anti-seize (MIL-PRF-907E) drill rod & other threaded connection compounds

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	64742525/64742570	40-60	Oil Mist TWA 5mg/M ³	N/A	N/A
Copper Powder	7440508	1-5	N/A	1mg/M ³	STEL: 2mg/M ³
Nonhazardous Blend	7782425/12003382 1317653/1317335 9002840	20-40	UN	UN	UN

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: Semisolid paste **Color:** Black **Odor:** Petroleum **pH:** Neutral **Boiling Range/Point °F (°C):** <600 (316)
Melting Point °F (°C): >450 (232) **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 **Percent Volatiles:** 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

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

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 Class (67/548/EEC): No **Allergens:** UN **LC-50:** >1000mg/ltr-(oncorhynchus mykiss) based on assessment from related products **LD-50:** N/A

Possible Effects: Highly unlikely to generate oil fractions that could act as a marine pollutants.

Behavior: Relatively well behaved. Bioaccumulation potential nil.


Environmental Fate: Highly unlikely to cause widespread contamination.

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.

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

Labeling Information: None needed **EC Annex 1 Classification:** N/A **R Phrases:** R22—harmful if swallowed.
S Phrases: None applicable, as known. **Ozone Depleting Chemicals:** N/A **TSCA:** All components are listed. **SARA 311/312:** None
WHMIS (Canada): Not controlled. **Canadian DSL:** All components listed. **RCRA Hazard Class:** Nonhazardous
40 CFR Part 372 (SARA Section 313): This product contains copper. **CERCLA:** Nonhazardous **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: November 6, 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	1
FLAMMABILITY	1
REACTIVITY	0
PPI	B

NFPA SYMBOL

