

EZY-TURN® POLAR

GATE VALVE SEALANT FOR ARCTIC CONDITIONS

DESCRIPTION

EZY-TURN® POLAR Gate Valve Sealant is a grey/black lubricant designed for oilfield use under arctic conditions. **EZY-TURN POLAR** is not affected by hydrogen sulfide encountered in sour crude and gas. It is also resistant to carbon dioxide. Pumpable with a high pressure lubricator to -75°F (-59°C).

EZY-TURN POLAR is resistant to hydrocarbons at low temperatures and will not absorb or mix with water, preventing freeze-up at low temperatures. Contains 100% synthetic base oils that are chemically resistant to severe acid conditions. Graphite is incorporated as a solid boundary lubricant to prevent galling of valve gates and seats. Normal valve operation requires less torque than with other products.

- Synthetic Base
- Color: Grey/Black
- Contains Graphite
- Hydrocarbon Resistant
- Repels Water
- Biodegradable
- Reduces Torque
- H₂S Resistant
- Nontoxic
- Pumpable

Note: Not for use with oxygen or strong oxidizers

APPLICATIONS

EZY-TURN POLAR is designed for oilfield gate valve lubrication under arctic conditions. It is resistant to hydrocarbons, hydrogen sulfide, carbon dioxide and water. Remains an effective sealant and lubricant to -75°F (-59°C). **EZY-TURN POLAR** is also recommended as a bearing lubricant for conveyor systems and as a lubricant for bearings, chains, slides, etc. where low temperature service is encountered.

PRODUCT CHARACTERISTICS

Appearance	Grey/Black paste
Penetration	265-295
	(ASTM D-217), mm x 10 ⁻¹
Density (lb/gal), Typical	7.65
Specific Gravity, Typical	0.9
Dropping Point	None
	(ASTM D-2265), °F (°C)
Oil Separation Wt. %	5.0 max
	(FTMS 791.B M.321.2) (ASTM D-6184)
Thickener	Inorganic
Flash Point F° (C°)	>435 (224)
	(ASTM D-92)

SERVICE RECOMMENDATIONS

- Carbon Dioxide
- Hydrogen Sulfide
- Sour Crude
- Sour Gas

SERVICE RATING*

-75°F (-59°C) to 350°F (177°C)

* OEM valve companies may have service ratings above or below those shown based upon specifics of their valves.

PACKAGING

Code No.	Net Wt.	Unit Size
91522	10 lb.	5 qt.
91516	35 lb.	5 gal.
91524	120 lb.	15 gal.
91529	400 lb.	50 gal.

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

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Maidenhead, England

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JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

Product Name: **EZY-TURN® POLAR**
Chemical Family: Synthetic lubricant
Use: Lubricant for low temperature service

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	103242/68441667 68037014/112945525 7782425/68411461 57556	60-100	N/A	N/A	STEL: N/A

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.

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:** Nonhazardous **Spillage:** Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

Handling: Do not allow it to enter drains (it may clog drain) **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:** Grey to Black **Odor:** Mild **pH:** Neutral **Boiling Range/Point °F (°C):** >600 (316)
Melting Point °F (°C): None **Flash Point (COC) °F (°C):** >435 (224) **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):** 0.92 **Flammability:** Not flammable at ambient temperature.
OAR Value: N/A **Oxidizing Properties:** None **Water Solubility:** Not soluble **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. Residue mainly comprised of soot & 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:** None known. **LC-50:** >4000mg/l-extrapolated from component data (mysidopsis bahia). **LD-50:** N/A

Possible Effects: None

Behavior: Relatively well behaved. Bioaccumulation almost nil.

Environmental Fate: Highly unlikely to cause notable contamination. Nontoxic to marine or land organisms.

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:** Not Applicable. **R Phrases:** R22—harmful if swallowed.

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

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

Signature: 
Prepared by: Donald A. Oldiges
Date Issued: April 7, 2009

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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	

NFPA SYMBOL

