

EZY-TURN® #5

GENERAL PURPOSE PLUG VALVE SEALANT

DESCRIPTION

EZY-TURN® #5 Plug Valve Sealant is formulated from non-toxic, high-viscosity vegetable oils, and polymers to assure heavy-duty sealing and lubrication in a wide range of general-purpose applications where resistance to aliphatic hydrocarbons or aqueous solutions is required. Contains a food-grade thickener with no other solid lubricant fillers.

EZY-TURN #5 is the recommended plug valve sealant to use for maximum sealing power and lowered valve torque requirements. It is pumpable using a high-pressure lubricator and works well for a majority of valve maintenance applications.

- Vegetable Oil Base
- Color: Amber
- Food Grade Additive
- No Solid Lubricants
- All Purpose
- Resists Aliphatic Hydrocarbons
- Pumpable
- Nonhazardous
- Lowers Torque
- Nontoxic
- Biodegradable

APPLICATIONS

EZY-TURN #5 can be used as the primary sealant in most plug valve lubrication programs. It is suitable for aqueous and hydrocarbon service. Its heavy-viscosity base oils provide maximum sealing power while lowering the torque required to operate the valve. Recommended for use in oilfield, refining, petrochemical, power plant, chemical plant, and marine applications.

Note: *Not for use with oxygen or strong oxidizers such as hydrogen peroxide or sulfuric acid.*

SERVICE RECOMMENDATIONS

- Aliphatic Hydrocarbon Liquids
- Crude Oil, Distillates
- Dilute Acids
- Dilute Alkalies
- Fuel Oil
- Gasoline
- Natural Gas
- Water

TEMPERATURE RANGE

0°F (-18°C) to 400°F (204°C)

Recommended Cleanup: Although conventional solvents like methanol, ethanol, IPA, chlorinated solvents, aromatic solvents, acetone and other ketones can be utilized, **JET-LUBE®** recommends its **EZY-OPEN™** or other safe oxygenated solvents. **EZY-OPEN** is a nontoxic, nonflammable, biodegradable lubricant and cleanser specifically designed for valve cleaning applications. It contains no components listed as federal hazardous wastes.

PRODUCT CHARACTERISTICS

Appearance

Bulk Amber Paste
Stick Amber Semi-Plastic

Cone Penetration (ASTM D-217)

Bulk 220 - 240
Stick 40 - 90

Density (lb/gal), Typical

Bulk 8.96
Cartridge 9.20

Specific Gravity, Typical

Bulk 1.07
Stick 1.11

Dropping Point (ASTM D-2265)

Bulk & Stick None

Oil Separation (FTMS 791.B M.321.2)

Bulk 2.0 max.
Stick 1.0 max.

Thickener

Bulk & Stick Inorganic

Flash Point (ASTM D-92) °F (°C)

Bulk & Stick >400 (204)

Temperature Range

Bulk & Stick 0°F (-18°C) to 400°F (204°C)

pH Range

Bulk & Stick 2 - 9

PACKAGING

Code No.	Type	Size
93580	B	3/8 x 1 1/2
93581	J	1-3/8 x 8 1/2
93582	K	1 1/2 x 10 1/2
93522	10 lb.	5 qt. can
93516	40 lb.	5 gal.
93524	120 lb.	15 gal.
93529	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

Houston, Texas—World Headquarters

Maidenhead, England

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VALVE

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JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

I Product Name: EZY-TURN® #5 Chemical Family: Synthetic based lubricating grease Use: Valve 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
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Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
Nonhazardous Blend	68187848/7631869 1338438/13539134 68611449/110305	100	UN	UN	STEL: UN

III 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.

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

VII
Handling: Do not allow it to enter drains (it may clog drain) **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:** Amber to Golden **Odor:** Mild **pH:** Neutral **Boiling Range/Point °F (°C):** >600 (316)
Melting Point °F (°C): None **Flash Point (COC) °F (°C):** >500 (260) **Autoignition Temperature °F (°C):** >500 (260)
Explosive Properties: LEL: UN UEL: UN **Evaporation Rate (Butyl Acetate):** <0.01 **Partition Coefficient (Log Pow):** N/A
Vapor Pressure (kPa): <0.01 **% Volatiles:** Nil **Density (g/cm³):** 1.09 ± .05 **Flammability:** Not flammable at ambient temperature.
OAR Value: N/A **Oxidizing Properties:** None **Water Solubility:** Not soluble **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, oxidizing agents. **Hazardous Decomposition Products:** Burning generates smoke, airborne soot, hydrocarbons & oxides of carbon and 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/kg—extrapolated from component data. **LD-50:** N/A

XII
Possible Effects: May generate oil fractions that are unlikely to act as marine pollutants.

XII
Behavior: Relatively well behaved. Bioaccumulation almost nil.


XIII
Environmental Fate: Highly unlikely to cause notable 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:** 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

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

Signature: 
Prepared by: Donald A. Oldiges
Date Issued: July 23, 2007

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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

