

EZY-OPEN™ LIQUID

VALVE PENETRANT

DESCRIPTION

EZY-OPEN™ valve penetrant is designed to penetrate scale, rust, corrosion and old oxidized hardened valve lubricants which can disable or make valves extremely difficult to operate. **EZY-OPEN** can be purchased as a soft gel or as a liquid specifically formulated from a select group of nonflammable, nontoxic and biodegradable fluids capable of softening or dissolving valve lubricants and sealants, residual gums, lacquer, scale and corrosion deposits.

In addition to the fluids selected, **EZY-OPEN** contains a powerful dispersant and detergent to aid in the removal of gum and lacquer, metal wetting agents to aid in the penetration of scale and rust, and PTFE to reduce the torque required to break the valve free. When the valve operates freely, the appropriate **EZY-TURN®** valve sealant product should be injected into the valve to provide long term lubrication and sealing.

- Color: Amber
- Biodegradable
- Nonhazardous
- No SARA listed components
- Reduces breaking torque
- Nonflammable
- Contains PTFE
- Environmentally Safe
- Contains dispersants and detergents
- Gel or Liquid

APPLICATIONS

EZY-OPEN valve penetrant is designed to penetrate and lubricate disabled or hard to operate lubricated valves. Excellent for use in any injectable assembly to aid in disassembly.

TEMPERATURE RANGE

-10°F (-23°C) to 400°F (204°C)

PRODUCT CHARACTERISTICS

Appearance	Amber Liquid
Density	8.0
(lb/gal) Typical	
Specific Gravity	0.96
Base Oil Viscosity	22 Typ.
cSt @ 40°C	
Additives	PTFE & dispersant/ detergents
Thickener	None
Flash Point, °F (°C)	>180 (82)
(ASTM D-92)	
Pour Point, °F (°C)	-10 (-23)
(ASTM D-97)	
Fluid Types	Vegetable and Ester
Liquid EZY-OPEN	- Similar to the above
Base Oil Viscosity	22 Typ.
cSt @ 40°C	

PACKAGING

Code No.	Net Weight	Unit Size
98920	35 lb.	Pail
98924	120 lb.	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

Edmonton, Canada



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JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

Product Name: EZY-OPEN™ LIQUID
Chemical Family: Synthetic cleaner/lubricant
Use: Penetrating lubricant and cleaner

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

Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
Isoparaffinic Solvent	64742478	10-20 Min	5mg/M ³	UN	UN
Esters/Ethers	25498481/34590948 872504	10-30 Min	UN	UN	UN
Nonhazardous Blend	68411461/9002840 8001794	50-55 Min	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:** 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:** 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: Soft gel/Semisolid paste **Color:** Amber **Odor:** Petroleum **pH:** Neutral **Boiling Range/Point °F (°C):** >300 (149)
Melting Point °F (°C): None **Flash Point (COC) °F (°C):** >180 (82) **Autoignition Temperature °F (°C):** >450 (232)
Explosive Properties: LEL: UN UEL: UN **Evaporation Rate (Butyl Acetate):** <0.01 **Partition Coefficient (Log Pow):** N/A
Vapor Pressure (kPa): <1.5 **% Volatiles:** 50% **Density (g/cm³):** 0.96 **Flammability:** Not flammable at ambient temperature.
OAR Value: >5000-group 5 **Oxidizing Properties:** None **Water Solubility:** Emulsifies with agitation **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 and nitrogen. 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 Classification (67/548/EEC): No **Allergens:** None known. **LC-50:** >2000mg/l—extrapolated from component data. **LD-50:** N/A

Possible Effects: In extreme cases may generate fractions that could act as a marine pollutant. Occurrences of this nature are extremely rare. **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:** N/A
S Phrases: S-3 keep cool, S-16 keep away from ignition sources **Ozone Depleting Chemicals:** N/A **TSCA:** All components are listed.
WHMIS (Canada): Class B, Div B-3 **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:** NMP

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

Signature: 
Prepared by: Donald A. Oldiges
Date Issued: February 24, 2010

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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	1
FLAMMABILITY	1
REACTIVITY	0
PPI	B

NFPA SYMBOL

