

# EASY-CLEAN<sup>®</sup> LIQUID

## ALKALINE CLEANER & DEGREASER CONCENTRATE

### DESCRIPTION

**EASY-CLEAN LIQUID** is an alkaline-based cleaner/degreaser that uniquely combines cleaning agents with newly-developed emulsifying technology to provide a product that can effectively remove carbon, grease, oil, and other organic deposits while being both safe and ozone friendly. **EASY-CLEAN LIQUID** is tomorrow's answer to today's cleaning problems - totally effective yet safe for our environment and atmosphere. Use by pouring a five gallon pail into a drum then dilute with water filling the drum.

Biodegradable	Noncombustible	Nonflammable
Nonfuming	Nontoxic	Water Soluble

**EASY-CLEAN LIQUID** contains no 1:1:1 Trichloroethane, Fluorocarbons or SARA Title III, Section 313, Part 372 listed ingredients and contains no acids, chlorides, phosphates, or TTO's (Total Toxic Organic Compounds).

**EASY-CLEAN LIQUID** is the most effective cleaner/degreaser for heavy-duty industrial services available and can be used for parts degreasing, pressure washing, steam cleaning, ultrasound cleaning, or simply by brushing or spraying and then rinsing with water or wiping clean. In its concentrated form, **EASY-CLEAN LIQUID** could be corrosive to aluminum and its alloys.

### APPLICATIONS

Construction	Oilfield Equipment	Metal Fabrication
Industrial	Residential	Marine
Utilities		

### DILUTION RATIOS

**EASY-CLEAN LIQUID** may be diluted with ordinary tap water or salt water (with reduced affect). Dilution ratios will vary greatly depending on the amount of buildup, temperature, and speed required to complete the job. Suggested dilution ratios of water to **EASY-CLEAN LIQUID**:

DILUTE	EQUIPMENT
<b>E-C Liquid</b>	
to water	
1:10	Drilling and Construction Equipment
1:30	Upholstery, Interiors, Carpet
1:40	Fuel Oil Truck Bodies, General Cleaning
<b>High Pressure Sprayers</b>	
1:50	150-300 psi Cold Water
1:100	150-300 psi Hot Water
1:100	500-800 psi Cold Water
1:200	500-800 psi Hot Water

**RINSE AND WIPE DRY - TEST FOR COLOR FASTNESS**

### PRODUCT CHARACTERISTICS

Specific Gravity	1.07
pH	14
Viscosity (Cps)	4.5
Flash Point (PMCC Closed Cup)	None to 212°F
(ASTM D93)	
Auto Ignition Point	None to 500°F
Vapor Pressure @ 20°C)	Composite <.04
Evaporation Rate	<1
(Butyl Acetate = 1)	
Vapor Density (Air = 1)	>1
Boiling Point	212°F (100°C)
Freezing Point	28°F

### PACKAGING

Code No.	Container Size	Container
30035	5 gal.	Jug
30029	50 gal.	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

**I** **Product Name:** EASY-CLEAN® LIQUID **Manufacturer/Supplier:** JET-LUBE, INC.  
**Chemical Family:** Surfactant solution/Alkaline cleaner **Address:** 4849 Homestead Rd., Ste. #200  
**Use:** Cleaning and degreasing of equipment, floors, fabrics, etc. 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
Sodium Hydroxide	1310732	<1	2mg/M <sup>3</sup>	2mg/M <sup>3</sup>	UN
2-Butoxyethanol	111762	60-100	50 ppm	25 ppm	UN
Sodium Metasilicate	6834920	1-10	3mg/M <sup>3</sup>	3mg/M <sup>3</sup>	N/A

**III** **Main Hazards—Health Effects**  
**Eyes:** Can cause irritation. **Inhalation:** Nasal and respiratory irritation, pneum, tissue damage. **Ingestion:** May cause diarrhea, nausea.  
**Skin:** Can irritate the skin.

**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. Drink large quantities of water, milk or vinegar. Do not induce vomiting. Consult physician. **Skin:** Wash thoroughly with water. Contaminated clothing should be rinsed prior to reuse.

**V** **Extinguishing Media:** None required. **Unsuitable Extinguishing Media:** Not applicable.  
**Protective Equipment for Fire fighting:** Not required.

**VI** **Personal Precautions:** Wear gloves, chemical resistant apron and full face shield. **Environmental Precautions:** None required.  
**Spillage:** Wash down surface and allow to dry to avoid walking hazard.

**VII** **Handling:** No special handling precautions necessary. **Storage:** Don't store at elevated temperatures. Keep container closed to avoid caking.

**VIII** **Respiratory Protection:** None needed. **Hand Protection:** Protective gloves.  
**Eye Protection:** Glasses to full-face shield. **Body Protection:** Chemical resistant apron.

**IX** **Physical State:** Fluid **Color:** Clear pink to red **Odor:** Strong bitter **pH:** 14 **Boiling Range/Point °F (°C):** >212 (100)  
**Melting Point °F (°C):** 32 (0) **Flash Point (COC) °F (°C):** None **Autoignition Temperature °F (°C):** None **OAR Value:** N/A  
**Explosive Properties:** LEL: N/A UEL: N/A **Evaporation Rate (Butyl Acetate):** <1 **Partition Coefficient (Log Pow):** UN  
**Vapor Pressure (kPa):** N/A **Percent Volatiles (Method 24):** 90 **Water Content (ASTM D-4017):** <1% **Density (g/cm<sup>3</sup>):** 1.07  
**Flammability:** Not flammable at ambient temp. **Oxidizing Properties:** None **Water Solubility:** Complete **Vapor Density:** >1

**X** **Stability:** Chemically stable under normal conditions. No photoreactive agents.  
**Conditions to Avoid:** Extreme temperatures. **Materials to Avoid:** Strong acids  
**Hazardous Decomposition Products:** Burning generates smoke and oxides of carbon.

**XI** **Acute Toxicity:** Not known. **Irritancy—Skin:** Can irritate skin. **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:** >2000mg/l—actual test data (Oncorhynchus Mykiss. **LD-50:** N/A


**XII** **Possible Effects:** Can be corrosive  
**Behavior:** Relatively well behaved. Bioaccumulation potential nil.  
**Environmental Fate:** Highly unlikely to cause widespread contamination. Believed nontoxic to marine or land organisms.

**XIII** **Product Disposal:** Contact waste disposal company or local authority for advice under D002.  
**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:** February 24, 2004

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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	2
FLAMMABILITY	1
REACTIVITY	1
PPI	D

