

CYCLO[®] INDUSTRIES, LLC

MATERIAL SAFETY DATA SHEET

10190 Riverside Drive, Palm Beach Gardens, Florida 33410-4881

Phone: (561) 775-9600

First Aid Emergency: (800) 752-7869 Ext. 10 or (312) 906-6194 Ext. 10

Shipping Emergency: (800) 424-9300 or (703) 527-3887

This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this product. Please read the information on these sheets and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL, STATE and COMMUNITY RIGHT TO KNOW regulations. Also, make this information available to any employee who requests it.

If Cyclo Industries, LLC considers the formula of this product to be a trade secret, the exact chemical names of the ingredient(s) and the percentages in which they are combined will not appear in the body of this sheet. The exact composition is available upon request to physicians, industrial hygienists and other health professionals.

SECTION 1 - PRODUCT IDENTIFICATION

Product Name: Cyclo[®] C-410 & C-415 Z•Lube™ Water Displacement Formula Multi-Purpose Lube

Common Code #: L-08951

Hazardous Material Description: DOT = Compound, lubricating
IMDG = C-410 = Dangerous Goods in Limited Quantity (Petroleum distillates), 3.3, III
C-415 = Flammable Liquid, N.O.S. (Petroleum Distillates), 3.3, UN1993, III

HMIS Codes: Health = 1 Flammability = 2 Reactivity = 0

SECTION 2 - PHYSICAL DATA

Boiling Point: 350°F - 500°F Specific Gravity (H₂O = 1): 0.79

Vapor Pressure:	<u>mm Hg @ Temp</u>	
Petroleum Distillate	2	100
Petroleum Oil	.01	68
Hydrotreated Light Napthenic Distillate	.01	68

Vapor Density: Heavier than air Evaporation Rate: Slower than ether

Solubility in Water: NIL

Appearance and Odor: Light amber colored liquid; light citrus odor

SECTION 3 - HAZARDOUS INGREDIENTS

<u>CAS Reg. No.</u>	<u>Material</u>	<u>Percentage</u>	<u>Exposure Limits</u>
64742-48-9	Petroleum Distillate, odorless mineral spirits	60 – 80	200 ppm / OSHA PEL 200 ppm / ACGIH TLV
64742-52-5	Petroleum Oil	5 – 20	5.0 mg/m ³ – OSHA PEL oil mist
64742-53-6	Hydrotreated Light Napthenic Distillate	1 – 15	5.0 mg/m ³ – OSHA PEL oil mist

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 120°F (49°C) Method Used: T.C.C.

Flammable Limits in Air by Volume: Lower = 0.7 Upper = 9.8

Extinguishing Media: Foam, alcohol foam, CO₂, dry chemical, water fog

Special Fire Fighting Procedures:

Water spray may be ineffective. Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. If water is used, fog nozzles preferred. Wear goggles and self-contained breathing apparatus.

Unusual Fire and Explosion Hazards:

Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Closed containers may explode when exposed to extreme heat. Vapor accumulation can flash or explode if ignited. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.

SECTION 5 - HEALTH HAZARD DATA**Effects of Overexposure:**

Ingestion: Aspiration can lead to chemical pneumonitis and pulmonary edema or hemorrhage.

Inhalation: Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination.

Skin Contact: Not easily absorbed. Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.

Eye Contact: Liquid or vapor can irritate

Health Hazards (Acute and Chronic):

Acute: Eye irritant, skin irritant. Narcotic in high concentrations.

Chronic: Liver and kidney disease. Skin irritation and dermatitis.

Carcinogenicity: NTP Carcinogen = No IARC Monographs = No OSHA Regulated = No

Medical Conditions Generally Aggravated by Exposure:

Acute and chronic liver and kidney disease, anemia.

SECTION 8 - SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released or Spilled:

Avoid breathing vapors. Ventilate area. Dike area to contain spill. Clean up area with absorbent material and place in closed containers for disposal.

Waste Disposal Method:

Dispose of in accordance with local, state and federal regulations. Before attempting clean up, refer to other sections of this MSDS for hazard caution information.

SECTION 9 - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage:

Store and use in cool, dry, well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat or open flame. Vapors may ignite explosively. Vapors may spread long distances. Prevent build-up of vapors. Extinguish all pilot lights and turn off heaters, non-explosion proof electrical equipment and ignition sources during use.

Other precautions:

Keep closure tight and container upright to prevent leakage. Open container slowly. Ground containers when filling or emptying. Do not get in eyes. Avoid skin contact and contact with clothing. Do not weld or flame-cut an empty drum. Do not take internally. Do not transfer contents to unlabelled containers.

Date entered: 4/21/99

Date revised: NEW

Cyclo Industries, LLC provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. Cyclo Industries, LLC makes no representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, Cyclo Industries, LLC will not be responsible for damages resulting from use of or reliance upon this information.