

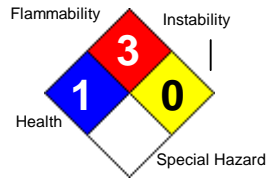


# MATERIAL SAFETY DATA SHEET

## Z-Lube

CYCLO INDUSTRIES, INC.  
902 SOUTH US HIGHWAY 1  
JUPITER, FL 33477

<b>HEALTH</b>		<b>1</b>
<b>FLAMMABILITY</b>		<b>3</b>
<b>REACTIVITY</b>		<b>0</b>
<b>PPE</b>		



Revision: 01/30/2012  
Supersedes Revision: 08/04/2010  
Date Created: 08/04/2010

## 1. Product and Company Identification

**Product Code:** C-405

**Product Name:** Z-Lube

**Manufacturer Information**

**Company Name:** CYCLO INDUSTRIES, INC.

**Phone Number:** (800)843-7813

**Fax Number:** (561)745-3867

**Emergency Contact:** First Aid Emergency (800)222-1222

**Alternate Emergency Contact:** Chemtrec (703) 527-3887 (800)424-9300

**Information:** First Aid Emergency (Outside U.S.) (312)906-6194

**Web site address:** www.cyclo.com

**Email address:** ehs@cyclo.com

## 2. Hazards Identification

### Emergency Overview

DANGER: Flammable. Harmful or fatal if swallowed. Eye & skin irritant. Contents under pressure.

### Potential Health Effects (Acute and Chronic)

No data available.

### Signs and Symptoms Of Exposure

Inhalation: Irritation of respiratory tract, headache, dizziness, fatigue.

Ingestion: Irritation of gastro-intestinal tract, nausea, diarrhea, vomiting.

Eye: Irritation or burning sensation.

Skin: Irritation or reddening.

### Medical Conditions Generally Aggravated By Exposure

None known when used as directed.

## 3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Hydrotreated light distillate (petroleum)	64742-47-8	<25.0 %
2. Hydrotreated Distillate	64742-46-7	<10.0 %
3. Carbon dioxide	124-38-9	< 5.0 %
4. Hydrotreated heavy naphtha	64742-48-9	<45.0 %
5. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	<25.0 %

## 4. First Aid Measures

### Emergency and First Aid Procedures

If swallowed, call a physician or poison control center. Induce vomiting only on the advice of a physician. If inhaled, remove victim to fresh air. Apply artificial respiration if needed. In case of eye contact, immediately flush eyes with water for at least 15 minutes. In case of skin contact, remove contaminated clothing and wash skin with soap and water. Call physician immediately if adverse reaction occurs.



## 5. Fire Fighting Measures

<b>Flammability Classification:</b>	NFPA Level 3 Aerosol		
<b>Flash Pt:</b>	NE		
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.	
<b>Autoignition Pt:</b>	No data available.		

### Fire Fighting Instructions

Use NIOSH self-contained breathing apparatus in confined areas. Addition of water fog will aid in reducing burning. Use water spray to cool fire-exposed containers.

### Flammable Properties and Hazards

Contents under pressure. Flammable vapors may travel along floor to be ignited by distant ignition sources. Containers exposed to fire may develop sufficient internal pressure to rupture with explosive force.

### Hazardous Combustion Products

No data available.

### Suitable Extinguishing Media

CO2 or dry chemical for small fires. Foam for large fires.

### Unsuitable Extinguishing Media

No data available.

## 6. Accidental Release Measures

### Steps To Be Taken In Case Material Is Released Or Spilled

Eliminate all ignition sources (vapor flammable). Ventilate area. At area where vapors may collect, wear SCBA breathing apparatus. Small spills should be flushed with large amounts of water. Large spills should be absorbed on non-flammable absorbent material for disposal. A release of 500 pounds or more may trigger reporting requirements of CERCLA Section 103.

Waste Disposal Method (s): Incineration of liquid, incineration or landfill of contaminated absorbent in accordance with local, state or federal regulations. Contact local authorities for proper disposal method.

## 7. Handling and Storage

### Precautions To Be Taken in Handling

Do not puncture or attempt to open pressurized container under any circumstances. Use only as directed. Keep out of reach of children.

### Precautions To Be Taken in Storing

Product should be kept in cool, dry environment. Keep product away from ignition sources.

## 8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits
1. Hydrotreated light distillate (petroleum)	64742-47-8	No data.	TLV: 200 mg/m3	No data.
2. Hydrotreated Distillate	64742-46-7	PEL: 5 mg/m3	No data.	No data.
3. Carbon dioxide	124-38-9	PEL: 5000 ppm	TLV: 5000 ppm STEL: 30,000 ppm	No data.
4. Hydrotreated heavy naphtha	64742-48-9	No data.	No data.	No data.
5. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No data.	No data.	No data.

### Respiratory Equipment (Specify Type)

None required for normal use. Avoid prolonged or repeated breathing of vapors.

### Eye Protection

None necessary when product is used as directed. Always avoid contact with eyes.



**Protective Gloves**

None necessary when product is used as directed.

**Other Protective Clothing**

No data available.

**Engineering Controls (Ventilation etc.)**

For commercial or home use, always provide adequate ventilation. Local exhaust ventilation preferred.  
Mechanical exhaust acceptable.

**Work/Hygienic/Maintenance Practices**

No data available.

**9. Physical and Chemical Properties**

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Melting Point:** No data.

**Boiling Point:** > 0.00 F (-17.8 C)

**Autoignition Pt:** No data.

**Flash Pt:** NE

**Specific Gravity (Water = 1):** 0.80

**Vapor Pressure (vs. Air or mm Hg):** 90 - 100

**Vapor Density (vs. Air = 1):** > 1

**Evaporation Rate (vs Butyl Acetate=1):** > 1

**Solubility in Water:** Complete

**Percent Volatile:** 48.4 % by weight.

**Appearance and Odor**

Concentrate is clear liquid.

**10. Stability and Reactivity**

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability**

Keep away from heat or ignition sources.

**Incompatibility - Materials To Avoid**

Strong oxidizing agents.

**Hazardous Decomposition Or Byproducts**

Combustion of liquid may form oxides of carbon and nitrogen.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions**

No data available.

**11. Toxicological Information**

No data available.

**Chronic Toxicological Effects**

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Hydrotreated light distillate (petroleum)	64742-47-8	n.a.	n.a.	A4	n.a.
2. Hydrotreated Distillate	64742-46-7	n.a.	n.a.	n.a.	n.a.
3. Carbon dioxide	124-38-9	n.a.	n.a.	n.a.	n.a.
4. Hydrotreated heavy naphtha	64742-48-9	n.a.	n.a.	n.a.	n.a.



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Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
5. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	n.a.	n.a.	n.a.	n.a.

### 12. Ecological Information

No data available.

### 13. Disposal Considerations

#### Waste Disposal Method

Disposal should be made in accordance with federal, state and local regulations.

### 14. Transport Information

#### LAND TRANSPORT (US DOT)

<b>DOT Proper Shipping Name</b>	Consumer Commodity
<b>DOT Hazard Class:</b>	ORM-D
<b>DOT Hazard Label:</b>	ORM-D

#### MARINE TRANSPORT (IMDG/IMO)

<b>IMDG/IMO Shipping Name</b>	Aerosols, Ltd. Qty.
<b>UN Number:</b>	1950
<b>Hazard Class:</b>	N.A.
<b>IMDG Classification:</b>	2.1

#### Additional Transport Information

No data available.

### 15. Regulatory Information

#### US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Hydrotreated light distillate (petroleum)	64742-47-8	No	No	No	No
2. Hydrotreated Distillate	64742-46-7	No	No	No	No
3. Carbon dioxide	124-38-9	No	No	No	No
4. Hydrotreated heavy naphtha	64742-48-9	No	No	No	No
5. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No	No	No	No

#### Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Hydrotreated light distillate (petroleum)	64742-47-8	No	No	Inventory	No
2. Hydrotreated Distillate	64742-46-7	No	No	Inventory	No
3. Carbon dioxide	124-38-9	No	No	Inventory	No
4. Hydrotreated heavy naphtha	64742-48-9	No	No	Inventory	No
5. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No	No	Inventory	No

Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
1. Hydrotreated light distillate (petroleum)	64742-47-8	No	No	No	No
2. Hydrotreated Distillate	64742-46-7	No	No	No	No
3. Carbon dioxide	124-38-9	Title 8	Yes	No	No
4. Hydrotreated heavy naphtha	64742-48-9	No	No	No	No
5. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. Hydrotreated light distillate (petroleum)	64742-47-8	No	No	No	No



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Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
2. Hydrotreated Distillate	64742-46-7	No	No	No	No
3. Carbon dioxide	124-38-9	Yes - 0343	No	Yes - 1	No
4. Hydrotreated heavy naphtha	64742-48-9	No	No	No	No
5. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	WI Air
1. Hydrotreated light distillate (petroleum)	64742-47-8	No
2. Hydrotreated Distillate	64742-46-7	No
3. Carbon dioxide	124-38-9	Yes
4. Hydrotreated heavy naphtha	64742-48-9	No
5. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No

### International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. Hydrotreated light distillate (petroleum)	64742-47-8	Yes	No	No
2. Hydrotreated Distillate	64742-46-7	Yes	No	No
3. Carbon dioxide	124-38-9	Yes	No	No
4. Hydrotreated heavy naphtha	64742-48-9	Yes	No	No
5. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	Yes	No	No

### SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

<b>Sec.302:</b>	EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile.
<b>Sec.304:</b>	EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ.
<b>Sec.313:</b>	EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
<b>Sec.110:</b>	EPA SARA 110 Superfund Site Priority Contaminant List

### TSCA (Toxic Substances Control Act) Lists:

<b>Inventory:</b>	Chemical Listed in the TSCA Inventory.
<b>5A(2):</b>	Chemical Subject to Significant New Rules (SNURS)
<b>6A:</b>	Commercial Chemical Control Rules
<b>8A:</b>	Toxic Substances Subject To Information Rules on Production
<b>8A CAIR:</b>	Comprehensive Assessment Information Rules - (CAIR)
<b>8A PAIR:</b>	Preliminary Assessment Information Rules - (PAIR)
<b>8C:</b>	Records of Allegations of Significant Adverse Reactions
<b>8D:</b>	Health and Safety Data Reporting Rules
<b>8D TERM:</b>	Health and Safety Data Reporting Rule Terminations
<b>12(b):</b>	Notice of Export

### Other Important Lists:

<b>CWA NPDES:</b>	EPA Clean Water Act NPDES Permit Chemical
<b>CAA HAP:</b>	EPA Clean Air Act Hazardous Air Pollutant
<b>CAA ODC:</b>	EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)



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<b>CA PROP 65:</b>	California Proposition 65
<b>CA TAC:</b>	California AB 1807 - Toxic Air Contaminants
<b>CA Title 8:</b>	California Hazardous Substances List: Title 8, Sec. 339
<b>MI CMR:</b>	Michigan Critical Materials Register
<b>MI Part 5:</b>	Michigan DEQ WRP Part 5 Pollutants List
<b>NC TAP:</b>	North Carolina Toxic Air Pollutants
<b>NJ EHS:</b>	New Jersey Environmental Hazardous Substances List
<b>NY Part 597:</b>	New York Part 597 List of Hazardous Substances
<b>PA HSL:</b>	Pennsylvania Hazardous Substances List
<b>SC TAP:</b>	South Carolina Toxic Air Pollutants
<b>WI Air:</b>	Wisconsin Reportable Air Contaminants

### International Regulatory Lists:

<b>Canadian DSL:</b>	Canada Domestic Substances List
<b>Canadian NDSL:</b>	Canada Non-Domestic Substances List
<b>Taiwan TCSCA:</b>	Taiwan Toxic Chemical Substances Control Act of 1986

## 16. Other Information

### Company Policy or Disclaimer

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