



# CYCLO<sup>®</sup> INDUSTRIES, INC

## MATERIAL SAFETY DATA SHEET

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, Inc. 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.

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### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** Cyclo<sup>®</sup> Heavy Duty Dry Moly, Stock No. C-3322

**Product Use:** Lubricant

**Manufactured by:** Cyclo Industries, Inc., 401 Maplewood Drive, Suite 18, Jupiter, FL 33458  
Telephone: (561) 775-9600

**First Aid Emergency:** (800) 752-7869 or (312) 906-6194

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

**HMIS Code:** Health = \*2 Flammability = 4 Physical Hazard = 2

**NFPA Rating:** Health = 2 Flammability = 4 Reactivity = 0

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### SECTION 2 - COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

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CAS Reg. No.	Material	Percentage	Exposure Limits
68476-86-8	Propane / Isobutane / N-Butane	40 – 50	1000 ppm = OSHA PEL TWA 800 ppm = OSHA PEL Ceiling Limits
108-88-3	Toluene	20 – 30	100 ppm = OSHA PEL TWA 50 ppm = ACGIH TLV TWA 150 ppm = OSHA PEL Ceiling Limits 150 ppm = ACGIH TLW STEL
67-64-1	2-Propanone	20 – 30	750 ppm: 2000 mg/m <sup>3</sup> = OSHA PEL TWA 1000 ppm = ACGIH TLW STEL 750 ppm: 1640 mg/m <sup>3</sup> = ACGIH TLV TWA
67-63-0	Isopropyl Alcohol	5 – 10	400 ppm: 2000 mg/m <sup>3</sup> = OSHA PEL TWA 500 ppm = ACGIH TLW STEL 400 ppm: 1640 mg/m <sup>3</sup> = ACGIH TLV TWA
1317-33-5	Molybdenum Disulfide	5 – 10	10 MG/M <sup>3</sup> = OSHA PEL TWA 10 MG/M <sup>3</sup> = ACGIH TLV TWA

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### SECTION 3 - HAZARDS IDENTIFICATION

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**Emergency Overview:** Vapors irritating to eyes and respiratory tract. Vapors may cause flash fire or explosion.

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### SECTION 4 - FIRST AID MEASURES

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**First Aid Procedures:**

**Ingestion:** Get medical attention immediately. If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Skin Contact:** Wash with soap and water. Get medical attention if irritation persists.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**Eye Contact:** Immediately flush eyes with large amounts of water. Get medical attention if irritation persists.

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### SECTION 5 - FIRE FIGHTING MEASURES

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**Flash Point:** -156° F (-104°C)

**Method Used:** Pensky-Martens C.C.

**Lower Explosive Limit:** 1.0%

**Upper Explosive Limit:** 12.8%

**Extinguishing Media:** Alcohol foam C)2 Dry Chemical Water Fog

**Special Fire Fighting Procedures:** Contents under pressure. Cool exposed containers with water spray to prevent bursting. SCBA should be used whenever chemical fires are present.

**Aerosol Comments:** NFPA Level 3 Aerosol

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### SECTION 6 - ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:** Wear appropriate protective clothing and equipment to prevent skin and eye contact.

**Spill/Leak Procedures:** Contain any liquid from leaking containers. Wear protective equipment specified. Remove sources of ignition. Increase area ventilation. Do not puncture or incinerate container. Contents under pressure. Clean up using dry procedures; avoid dusting. Sweep or gather up material and place in proper container for disposal or recovery.

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### SECTION 7 - HANDLING AND STORAGE

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**Handling & Storage Procedures:** Danger. Extremely Flammable. Caution: Contents under pressure. Keep away from heat and open flame. Do not puncture, incinerate or store above 120°F (49°C). Do not store in passenger compartment of automobile. Use only in a well ventilated area. See product label for additional information. KEEP OUT OF THE REACH OF CHILDREN.

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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Respiratory Protection:** Use an approved NIOSH organic vapor respirator below the TLV. If TLV is exceeded or overexposure is likely, use positive pressure or self contained breathing apparatus.

**Ventilation:** Exhaust ventilation.

**Protective Clothing:** Use chemical resistant gloves for prolonged skin contact. Rubber apron.

**Eye Protection:** Safety glasses or goggles to protect against exposure.

**Work/Hygienic Practices:** Eye washes and safety showers in the workplace are recommended.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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**Boiling Point:** -43 – 232° F

**Specific Gravity (H<sub>2</sub>O=1):** .7370

**Vapor Density (Air=1):** Heavier than air

**Solubility in Water:** Negligible

**Evaporation Rate (Butyl Acetate = 1):** Faster than Butyl Acetate

**Appearance and Odor:** Aerosol product – DK gray. Solvent odor

**Volatile Organic Compound (VOC) (as packaged minus water):** 3.87 lbs / gal 463 grams/ltr

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## SECTION 10 - STABILITY AND REACTIVITY

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**Stability:** Stable

**Conditions to Avoid:** Keep away from heat, sparks and flame. Temperatures over 120°F (49°C).

**Incompatibility (materials to avoid):** Strong acids, alkalis, oxidizers and amines.

**Hazardous Decomposition or Byproducts:** Oxides of carbon, oxides of nitrogen, and may produce forms of chloride, chlorine and phosgene.

**Hazardous Polymerization:** Will not occur.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**


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**Toxicological Data:**

<b>Ingredient</b>	<b>LD50</b>	<b>LC50</b>
Propane/Isobutane/N-Butane	NE	658000 MG/M3/4H LC50
2-Propanone	5800 MG / KG / Rat	50100 MG/M3/8H LC50
Toluene	636 MG/KG/Rat	49000 MG/M3/4H/Rat
Isopropyl Alcohol	5045 MG/KG/Rat	72600 MG/M3/Rat
Molybdenum Disulfide	>2 GM/KG/Rat	>2820 MG/M3/4H/RAT
Aromatic Hydrocarbon	8400 MG/KG Rat	NE
Hydroxypropyl Cellulose	10200 MG/KG/Rat	ND
1,2,4-Trimethylbenzene	5000 MG/KG Rat	3658 PPM/4H Rat
Benzene	930 MG/KG	NE
Dimethylbenzene	4300 MG/KG Rat	30000 MG/M3/Mammal
Cumene	1400 PPM/Rat	10 PPM/7H/Mouse
Ethylbenzene	3500 MG/KG/Rat	NE

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**SECTION 12 - ECOLOGICAL INFORMATION**


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**Aquatic/Terrestrial Toxicity Environmental Fate** No data is available at this time.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**


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**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.

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**SECTION 14 - TRANSPORT INFORMATION**


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**U.S. DOT**

**Shipping Description:** Consumer Commodity  
**ID Number:** Not applicable  
**Hazard Class:** ORM-D  
**Packing Group:** Not applicable  
**Label:** Not applicable  
**Placards:** Not applicable

**IMDG**

**Shipping Description:** Aerosols, Ltd. Qty.  
**ID Number:** UN1950  
**Hazard Class:** 2.1  
**Packing Group:** Not applicable  
**Label:** Not applicable  
**Markings:** Not applicable  
**Placards:** Not applicable

