



CYCLO[®] INDUSTRIES, LLC

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, 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 & COMPANY IDENTIFICATION

Product Name: Cyclo[®] Red Grease, Stock No. C-123

Product Use: Protects and lubricates all types of industrial bearings, striker plates, chain and cables, etc.

Manufactured by: Cyclo Industries, LLC, 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 = 1 Flammability = 4 Reactivity = 0

SECTION 2 – COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

| CAS Reg. No. | Material | Percentage | Exposure Limits |
|--------------|----------------------------|------------|---|
| 142-82-5 | N-heptane | <30 | 400ppm = ACGIH TLV-TWA & OSHA PEL-TWA 500ppm = ACGIH TLV-STEL & OSHA PEL-Ceiling |
| 68476-86-8 | Propane/isobutene/n-butane | <25 | 800ppm = ACGIH TLV-TWA & OSHA PEL-TWA |
| 67-64-1 | 2-propanone | <15 | 750ppm = ACGIH TLV-TWA & OSHA PEL-TWA 1000ppm = ACGIH TLV-STEL |
| 64742-57-0 | Petroleum hydrocarbon | <10 | 10 mg/m ³ = ACGIH TLV-STEL 5mg/m ³ = OSHA PEL-TWA & OSHA TLV-TWA |

SECTION 3 – HAZARDS IDENTIFICATION

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

Effects of Overexposure:

Skin Contact: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

SECTION 3 – HAZARDS IDENTIFICATION continued

Effects of Overexposure (continued):

- Eye Contact:** Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.
- Ingestion:** This material may be harmful or fatal if swallowed.
- Inhalation:** Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor or skin exposure. Prolonged inhalation may be harmful.

Chronic Health Hazards: Overexposure may cause nervous system damage, lung damage and kidney damage.

SECTION 4 – FIRST AID MEASURES

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:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.
- 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 plenty of water. Get medical attention if irritation persists.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: -156°F (-104°C) **Method Used:** Pensky-Martens C.C.

Flammable Limits in Air by Volume: Lower Explosion Limit (LEL) = 1.2% / Upper Explosion Limit (UEL) = 12.8%

Extinguishing Media: Alcohol foam, CO₂, dry chemical, foam, water fog.

Special Fire Fighting Procedures: Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

Unusual Fire and Explosion Hazards: Vapors can travel to a source of ignition and flash back. “Empty” containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner,

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

SECTION 7 – HANDLING AND STORAGE

Handling & Storage Procedures: Wash thoroughly after handling. Keep away from heat, sparks and flame. Keep from freezing. See product label for additional information. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Ventilation: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

Protective Clothing: Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots and chemical safety goggles plus a face shield.

Eye Protection: Safety glasses with side shields or goggles and a face shield.

Work/Hygienic Practices: Eye washes and safety showers in the workplace are recommended. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin and clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: -43°F (-42°C) **Specific Gravity (H₂O=1):** 0.7301

Vapor Density (Air=1): Heavier than air **Solubility in Water:** Negligible

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

Appearance and Odor: Red liquid aerosol product with solvent odor

Volatile Organic Compound (VOC) (as packaged minus water): 3.00 lbs/gal - 360 g/l - 49.9%

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: All sources of ignition, welding arcs and open flames.

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

SECTION 10 – STABILITY AND REACTIVITY continued

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

Hazardous Polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicological Data: LD50: 5800 mg/kg LC50: 50100 ppm

SECTION 12 – ECOLOGICAL INFORMATION

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

SECTION 13 – DISPOSAL CONSIDERATIONS

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 14 – TRANSPORT INFORMATION**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

SECTION 15 – REGULATORY INFORMATION

TSCA Inventory: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory of chemical substances maintained by the U.S. Environmental Protection Agency.

SECTION 15 – REGULATORY INFORMATION

SARA Extremely Hazardous Substances None

SARA Section 313 This product does not contain any toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313 – Toxic Chemical Release Reporting)

CERCLA/Superfund (RQ):

| <u>Chemical / CAS#</u> | <u>RQ</u> |
|-------------------------|------------|
| 2 – Propanone / 67-64-1 | 5,000 lbs. |

California Proposition 65: The chemical noted below and contained in this product, is known to the State of California to cause cancer, birth defects or other reproductive harm:

| <u>Chemical / CAS#</u> |
|------------------------|
| Toluene / 108-88-3 |

SECTION 16 – OTHER INFORMATION

Document Date: March 10, 2006

Supersedes: New

Revisions: Not applicable

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