

CYCLO[®] INDUSTRIES, LLC

MATERIAL SAFETY DATA SHEET

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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: C-48 Cyclo[®] Lead Substitute

Hazardous Material Description: DOT - Consumer Commodity ORM-D
IMDG - Non-hazardous Gasoline Additive

HMIS Code: HEALTH = 1 FLAMMABILITY = 2 REACTIVITY = 0

SECTION 2 — PHYSICAL DATA

Boiling Point: >200°F (>95°C) Specific Gravity (H₂O = 1): 0.90

Vapor Pressure (mm Hg): N/A Vapor Density (AIR = 1): <1.0

Percent Volatile By Volume (%): 100 Solubility in Water: Negligible

Appearance and Odor: Amber liquid, solvent odor

Volatile Organic Compound (VOC) (as packaged minus water): 100%

SECTION 3 — HAZARDOUS INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
64742-53-5-6	Petroleum distillate	90 – 100	Not applicable
Mixture	Proprietary Additive	0 – 10	Not applicable

SECTION 4 — FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F (93.3°C) Method Used: PMCC

Flammable Limits in Air by Volume: 1.0 to 6.0
Lower Explosive Limit (LEL) = 1.0 Upper Explosive Limit (UEL) = 6.0

Extinguishing Media: Carbon dioxide, dry chemical, foam and/or water fog.

Special Fire Fighting Procedures: Wear NIOSH approved SCBA respirator in the positive pressure mode and chemical protective clothing.

Unusual Fire and Explosion Hazards: Water may cause frothing.

SECTION 5 — HEALTH HAZARD DATA

Effects of Overexposure:

Ingestion: Toxicity is relatively low, there is a risk of aspiration of product into the lungs. On ingestion of large quantities, slight GI discomfort, diarrhea, headache and nervous system depression may occur. Small doses may produce irritation and diarrhea.

Inhalation: Low risk of inhalation. Mists above TLV may cause chemical pneumonitis.

Skin Contact: Irritant

Eye Contact: Irritant

First Aid Procedures:

Ingestion: Do NOT induce vomiting, product contains petroleum distillate. Get medical attention immediately.

Skin Contact: Remove contaminated clothing and wash the skin with soap and water for at least 15 minutes.

Inhalation: Move the exposed person to fresh air at once and call emergency medical care. If breathing has stopped, give artificial respiration. If breathing is difficult, give humidified oxygen.

Eye Contact: Immediately wash the eyes with large quantities of room temperature water for at least 15 minutes, occasionally lifting the lower and upper lids. Get medical attention immediately.

SECTION 6 — REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Store below 150°F. Do not apply high heat or flame to container. Keep separate from strong oxidizing agents.

Incompatibility (materials to avoid): Strong oxidants.

SECTION 6 — REACTIVITY DATA continued

Hazardous Decomposition Products: Excessive heating and/or incomplete combustion will produce carbon monoxide.

Hazardous Polymerization: Will not occur

SECTION 7 — SPECIAL PROTECTION INFORMATION

Respiratory Protection: Normally none is required. If high vapor or mist concentration are expected, use appropriate NIOSH approved respirator for organic vapors and mists. Respirators must be selected based on the airborne levels found in the workplace and must not exceed the working limits of the respirator.

Ventilation:

Local Exhaust Rate: Provide local ventilation to maintain exposure levels below recommended exposure limits.

Mechanical (General): In confined spaces, mechanical ventilation may be required.

Special Ventilation: OSHA TWA = 5 mg/m³

Protective Gloves: Use oil impervious gloves as required.

Eye Protection: Use splash proof chemical, safety goggles or appropriate full-face respirator.

Other Protective Equipment: If there is a possibility of exposure of an individual's body to the product, wear body-covering work clothes to avoid prolonged or repeated exposure.

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

SECTION 8 — SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released or Spilled: SMALL SPILL — Remove sources of heat or ignition, provide adequate ventilation, contain leak using absorbent, inert, non-combustible material. LARGE SPILL — Contain spill, transfer to secure containers. In the event of an uncontrolled material release, the user should determine if release is reportable under applicable laws and regulations.

Waste Disposal Method: Dispose of product in accordance with local, state and federal regulations. Before attempting clean up, refer to other sections of MSDS for hazard warning information.

SECTION 9 — SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage: Product is combustible, keep away from sources of ignition, oxidizing materials and acids. Store in an area equipped with automatic sprinklers or fire extinguishing system. Empty containers contain products residues, assume emptied containers to have same hazards as full containers. Bond and ground all equipment when transferring from one vessel to another vessel. See other sections of MSDS

Other precautions: Product is combustible, handle accordingly.

SECTION 10 — REGULATORY INFORMATION

CERCLA Section 311 (b)(4):

Requires discharges of crude oil and petroleum products in any kind or form to waters must immediately be reported to the National Response Center at (800) 424-8802.

SARA TITLE III.

Section 302: None

Section 304: None

Section 311: None

Section 313: None

Date revised: 7/27/00

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