

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-19 & C-20 Cyclo[®] Motor Flush

Hazardous Material Description:

DOT = Consumer Commodity ORM-D

IMDG = Non-Hazardous

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

SECTION 2 — PHYSICAL DATA

Boiling Range: 480 - 640°F (249 - 338°C) Specific Gravity (H₂O=1): 0.87

Vapor Pressure (mm Hg.): Not applicable Vapor Density (AIR=1): Not applicable

Evaporation Rate (Butyl Acetate = 1): <1

Solubility in Water: Negligible

Appearance and Odor: Pale yellow to amber liquid, petroleum/amine/aromatic odors.

SECTION 3 — HAZARDOUS INGREDIENTS

CAS Reg. No.	Material	Percentage Range	Exposure Limits
8008-20-6	Kerosene	90 – 100	Not applicable

SECTION 4 — FIRE AND EXPLOSION HAZARD DATA

Flash Point: 140°F (60°C)

Flammable Limits (% by volume in air):

Lower Explosive Limit (LEL): 0.7 Upper Explosive Limit (UEL): 5.0

Extinguishing Media: Use carbon dioxide, dry chemical, foam and/or water fog as extinguishing media.

Special Fire Fighting Procedures:

Wear NIOSH approved SCBA respirator in the positive pressure mode and chemical protective clothing.

Unusual Fire and Explosion Hazards:

Material is highly volatile and emits vapors which may be ignited by other ignition sources.

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: Mild irritant.

First Aid Procedures:

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

Skin Contact: Promptly remove any 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 120°F. Do not apply high heat or flame to container.

Incompatibility (materials to avoid): Strong oxidants, strong acids, caustics.

Hazardous Decomposition Products:

Excessive heating and/or incomplete combustion will produce CO₂.

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.

Local Exhaust:

Provide local ventilation to maintain exposure levels below recommended exposure limits.

Mechanical (General): Recommended.

Protective Gloves: Use oil impervious gloves as required.

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

Other Protective Equipment:

For possible exposure to the body, wear body-covering work clothes.

Work/Hygienic Practices: Use normal hygiene practices.

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.

CERCLA (Superfund) Reportable Quantity (in lb.):

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.

SECTION 9 — SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage:

Product is combustible, keep away from sources of ignition, oxidizing materials and acid. Store in an area equipped with automatic sprinklers or fire extinguishing system. Empty containers contain product 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. Do not use or store near fire, heating equipment, sources of ignition or any other type of ignition (i.e. welding, grinding, cutting). Use in well ventilated areas. In confined space mechanical ventilation may be required to keep levels of certain components below mandated standards.

Date revised: 4/19/00

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