

CYCLO[®] INDUSTRIES

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-44 Cyclo[®] Max 44[™] Total System Cleaner

Hazardous Material Description: DOT & IMDG = Non regulated, non-hazardous

HMIS Code: Health = 1 Flammability = 2 Reactivity = 0

SECTION 2 — PHYSICAL DATA

Boiling Range: 480° - 640°F (249° - 338°C) Specific Gravity: 0.8728

Vapor Pressure: Not applicable Vapor Density: 3 - 4

Solubility in Water: Negligible

Evaporation Rate (Butyl Acetate = 1): <1

Appearance and Odor: Colorless to pale yellow (amber) liquid, petroleum odor.

Volatile Organic Compound (VOC): 93%

SECTION 3 — HAZARDOUS INGREDIENTS

<u>CAS Reg. No.</u>	<u>Material</u>	<u>Percentage</u>	<u>Exposure Levels</u>
8008-20-6	Petroleum Distillates	80 – 90%	Oral: LD50(rat): 28g/kd
68891-84-9	Polybutene Amine	0 – 5%	N/A
025322-69-4	Polypropylene Glycol	0 – 5%	N/A
64742-94-5	Aromatic Hydrocarbon	0 – 5%	100 ppm / TWA
54742-94-5	Petroleum Distillate	0 – 5%	100 ppm
64742-98-0	Hydrocarbon Oxidate	0 – 5%	5 mg/m ³ / OSHA
Not Established	Polyether Amine	0 – 5%	N/A

SECTION 4 — FIRE AND EXPLOSION HAZARD DATA

Flash Point: 145°F - 185°F (63°C - 85°C) Method Used: Closed cup

Flammable Limits (% by volume in air): Lower = 0.7 Upper = 5

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

Special Fire Fighting Procedures: Wear self-contained breathing apparatus when in a confined area.

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: Vapors, mists and fumes are hazardous. Do not inhale.

Symptoms of Exposure: Headache, drowsiness, eye, respiratory or skin irritation, nausea, numbness.

Acute Exposure Effects: Central nervous system depression, peripheral nervous system depression, narcosis, asphyxiation, gastrointestinal disturbances, and eye and skin irritation.

Chronic Exposure Effects: Dermatitis, pneumonitis, pulmonary edema and kidney damage.

First Aid Procedures:

Ingestion: Do not induce vomiting. Give two glasses (16 ounces) of water. If vomiting occurs naturally, have victim lean over to avoid aspiration. Get medical attention immediately. Never give anything by mouth to an unconscious person.

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

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Follow up with soap and water wash as soon as possible. Get medical attention. Wash clothing before use.

Eye Contact: Flush eyes immediately with plenty of water for at least 15 minutes. Obtain medical attention.

SECTION 6 — REACTIVITY DATA

Stability: Stable Conditions to Avoid: Heat, flame.

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

Hazardous Decomposition Products: CO₂ (CO under incomplete combustion).

Hazardous Polymerization: None

SECTION 7 — SPECIAL PROTECTION INFORMATION

Respiratory Protection: Full facepiece, NIOSH approved organic vapor respirator.

Ventilation:

Local Exhaust: At source of vapor. Mechanical (General): Recommended.

Protective Gloves: Resistant to chemical penetration.

Eye Protection: Chemical goggles for primary protection. For severe exposure, add face shield.

Other Protective Equipment: If skin contact or contamination of clothing is likely, chemical-resistant, protective clothing should be worn.

SECTION 8 — SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released or Spilled: Ventilate area. Remove sources of ignition. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil.

Waste Disposal Method: Dispose of in a permitted hazardous waste facility in compliance with applicable local, state and federal regulations. It should be handled in a manner acceptable to good waste management practice.

SECTION 9 — SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage: Do not get in eyes, on skin or clothing. Do not take internally. Wash thoroughly after handling. Avoid breathing mist or vapor. Use only with adequate ventilation. Keep away from heat, sparks, open flame and fire. Keep container closed.

Other precautions: Store in cool, dry, well-ventilated area away from sources of ignition. Keep containers closed when not in use.

SECTION 10 — REGULATORY INFORMATION

TSCA: Components of this product are listed on the TSCA Inventory Discharge or spills which produce a visible sheen on either surface water or in waterways/sewers which lead to surface water, must be reported to the National Response Center at (800) 424-8802.

This information may be subject to the provision of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met. This product does not contain Section 313 Reportable Ingredients.

Date revised: 11/26/02

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