

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-46 Cyclo[®] Super Concentrated Gas Treatment Common Code #: TK-279

Hazardous Material Description:

D.O.T. = Cleaning Compound, N.O.I., Consumer Commodity ORM-D

IMDG = Dangerous Goods in Limited Quantities of Class 3.3

HMIS Code: Health = 1

Flammability = 2

Reactivity = 0

SECTION 2 - PHYSICAL DATA

Specific Gravity (H₂O=1): 0.88

Solubility in Water: Negligible

Appearance and Odor: Amber, clear liquid with hydrocarbon odor.

SECTION 3 - HAZARDOUS INGREDIENTS

<u>CAS Reg. No.</u>	<u>Material</u>	<u>Percentage</u>	<u>Exposure Limits</u>
8008-80-6	Kerosene	80 - 100	100 mg/m ³ (ACGIH STEL) 100 mg/m ³ (OSHA STEL)
128-37-0	Butylated hydroxy toluene	<0.5	
64742-95-6	Aromatic hydrocarbon	<0.5	100 ppm = TWA
877-44-1	Triethylbenzenes 1, 2, 4	<0.5	25 ppm = TLV 25 ppm = PEL

*** No toxic chemical(s) subject to the reporting requirements of section 313 Title III and of 40 CFR 372 are present ***

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 92°F (33°C)

Method Used: C.O.C.

Extinguishing Media: Foam, dry chemical or water spray.

Flammable Limits In Air % By Volume at:

Lower Explosion Limit (LEL): 0.7

Upper Explosion Limit (UEL): 5

Special Fire Fighting Procedures: Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Respiratory and eye protection required for fire fighting personnel. Avoid spraying water directly into storage containers due to danger of boilover.

Unusual Fire and Explosion Hazards: This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

SECTION 5 - HEALTH HAZARD DATA

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

Acute Effects of Overexposure: 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.

Carcinogenicity: NTP Carcinogen = No; IARC Monographs = No; OSHA Regulated = No

First Aid Procedures:

Ingestion: If swallowed, DO NOT induce vomiting. Seek medical attention immediately. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. DO NOT attempt to give anything by mouth to an unconscious person.

Skin Contact: Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. If irritation persists, seek medical attention.

Inhalation: Remove from contaminated atmosphere. If not breathing, administer artificial respiration. Keep at rest. Call for prompt medical attention.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention.

SECTION 6 - REACTIVITY DATA

Stability: Stable.

Incompatibility (materials to avoid): Strong oxidizing and reducing agents.

SECTION 6 - REACTIVITY DATA continued

Hazardous Decomposition Products: Fumes, smoke, oxides of nitrogen and carbon monoxide.

Hazardous Polymerization: Will not occur.

SECTION 7 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Where overexposure by inhalation may occur and engineering, work practice or other means of exposure reduction are not adequate, approved respirators may be necessary.

Ventilation: Ventilation should be provided to control worker exposures and prevent health risk.

Protective Gloves: For open systems where contact is likely, wear chemical resistant gloves.

Eye Protection: For open systems where contact is likely, wear chemical goggles. Where contact may occur, wear safety glasses with side shields.

Other Protective Equipment: Wear long sleeves.

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: **LAND SPILL** – Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills, implement cleanup procedure; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, notify the National Response Center. Prevent liquid from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use and explosion proof or hand pump (or with a suitable absorbent. If liquid is too viscous for pumping, scrape up. Consult an expert on disposal of recovered material. **WATER SPILL** – Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to say clear. Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters. Consult an expert on disposal of recovered material.

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 9 - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage: Keep container closed. Handle and open containers with care. Store in a cool, well-ventilated place away from incompatible materials. **DO NOT** handle or store near an open flame, heat or other ignition sources. Protect material from direct sunlight.

SECTION 9 - SPECIAL PRECAUTIONS continued

Other precautions: Toxic gases will form upon combustion. "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, or properly disposed of.

SECTION 10 – REGULATORY INFORMATION

TSCA: Components of this product are listed on the TSCA Inventory.

Discharge of 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. The information maybe subject to the provision of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met.

Date entered: 3/15/00

Date revised: NEW

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