

# CYCLO<sup>®</sup> INDUSTRIES, LLC

## MATERIAL SAFETY DATA SHEET

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Shipping Emergency: (800) 424-9300 or (703) 527-3887

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-290 Cyclo<sup>®</sup> Gas Stabilizer

Hazardous Material Description: DOT: Combustible Liquid, N.O.S., NA1993, III  
IMDG: Flammable Liquid, N.O.S. (Kerosene), 3,  
UN1993, III

HMIS Code: Health = 2

Flammability = 1

Reactivity = 0

### SECTION 2 - PHYSICAL DATA

Specific Gravity (H<sub>2</sub>O=1): 0.80 – 0.81

Solubility in Water: Insoluble

Appearance and Odor: Colorless to pale straw with kerosene odor.

### SECTION 3 - HAZARDOUS INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
8008-20-6	Kerosene	90 – 100	100mg/m <sup>3</sup> = ACGIH TLV
68610-06-0	Tertiary Butylated Phenol	0.1 – 10	Not established

\*\*\* 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: 104°F / 40°C

Method Used: PM minimum

Extinguishing Media: Foam, dry chemical, water spray or CO<sub>2</sub>.

Flammable Limits In Air % By Volume at:

Lower Explosion Limit (LEL): Not established

Upper Explosion Limit (UEL): Not established

Special Fire Fighting Procedures: Wear respiratory protection and eye wear.

Unusual Fire and Explosion Hazards: Vapor accumulation is possible and flashback can occur with explosive force if vapors are ignited.

**SECTION 5 - HEALTH HAZARD DATA**

Effects of Overexposure:

Ingestion: Irritation of the mucous membranes of the throat, esophagus and stomach which may result in nausea and vomiting; central nervous system depression may occur, if absorbed. If aspirated, chemical pneumonitis may occur with potentially fatal results.

Inhalation: Irritation of the upper respiratory tract and eyes, with possible euphoria, dizziness, headache, discoordination, ringing in the ears, convulsions, coma and respiratory arrest.

Skin Contact: Defatting of the skin may occur with continued and prolonged contact. Irritation and burning sensation may occur on exposed to the liquid to mists, as well as the possibility of blisters. Hair loss can occur upon chronic exposure.

Eye Contact: Severe burning sensation with temporary irritation and swelling of lids.

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

Medical Conditions Generally Aggravated by Exposure: Medical conditions which have the same symptoms and effects as those outlined under the health hazard information below can be aggravated by exposure to this product.

Acute and Chronic Exposure Effects: Over exposure by inhalation to the product components may cause nonspecific discomfort such as nausea, headache or weakness; visual disturbances including blindness; irritation of the upper respiratory passages; acidosis; temporary nervous system depression with anesthetic effects such as dizziness, headache, confusion, incoordination and stress; anemia and other blood changes; respiratory effects; possible liver and kidney damage; or fatality from gross overexposure. Target organs include the respiratory system, nervous system and mucous membranes.

First Aid Procedures:

Ingestion: DO NOT INDUCE VOMITING. If individual is conscious, give milk or water to dilute stomach contents. Get prompt medical attention. Do not attempt to give anything by mouth to an unconscious person.

**SECTION 5 - HEALTH HAZARD DATA continued**

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

Inhalation: Using proper respiratory protection, immediately remove the affected victim from exposure. Seek 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): Oxygen and strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of sulfur and nitrogen and other toxic gases.

Hazards of Combustion Products: Carbon monoxide and carbon dioxide can be found in the combustion products of this product and other forms of hydrocarbon combustion. Carbon monoxide in moderate concentrations can cause symptoms of headache, nausea, vomiting, increased cardiac output and confusion. Exposure to higher concentrations of carbon monoxide can cause loss of consciousness, heart damage and/or death. Exposure to high concentrations of carbon dioxide can cause simple asphyxiation by displacing available oxygen. Combustion of this and other similar materials should only be carried out in well-ventilated areas.

Hazardous Polymerization: Will not occur

**SECTION 7 - SPECIAL PROTECTION INFORMATION**

Ventilation: Use in a well-ventilated area.

Protective Gloves: Chemical resistant

Eye Protection: Chemical goggles

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 source of ignition. Implement clean up procedures. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. WATER SPILL – Eliminate source of ignition. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

**SECTION 8 - SPILL OR LEAK PROCEDURES continued**

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: Do not get in eyes on skin or on clothing. Do not breathe vapors, mist fume or dust. Do not swallow, may be aspirated into lungs. Wear protective equipment. Wash thoroughly after handling. Immediately remove and launder contaminated clothing before reuse. Use adequate ventilation.

Other precautions: Separate from oxidizing materials. Keep container closed. Store in cool, well-ventilated area away from incompatible materials. Do not handle or store near open flame, heat or other ignition sources. Do not pressurize, cut, heat or weld containers.

**SECTION 10 – REGULATORY INFORMATON**

TSCA: Components of this product 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 provisions of the Community Right-To-Know Reporting Requirements (40 CFR 370) of threshold quantity criteria are met.

Date entered: 8/27/01

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