



# CYCLO<sup>®</sup> INDUSTRIES, INC.

## MATERIAL SAFETY DATA SHEET

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, Inc. 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.

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### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** Cyclo<sup>®</sup> Carb Clean, Stock No. C7

**Manufactured by:** Cyclo Industries, Inc., 401 Maplewood Drive, Suite 18, Jupiter, FL 33458  
Telephone: (561) 775-9600

**First Aid Emergency:** (800) 752-7869 or (312) 906-6194

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

**HMIS Code:** Health = 2 Flammability = 3 Reactivity = 0

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### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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CAS Reg. No.	Material	Percentage	
1330-20-7	Xylene	45- 65	<b>Exposure Limits</b>
8052-41-3	Petroleum Distillate	35-50	500 ppm PEL 2,900 mg/m <sup>3</sup> PEL
67-63-0	Isopropanol	1 - 12	400 ppm PEL 980 mg/m <sup>3</sup> PEL
111-76-2	2-Butoxy Ethanol	1 - 10	50 ppm PEL 240 mg/m <sup>3</sup> PEL
67-56-1	Methanol	5 - 10	200 ppm = ACGIH TLV TWA 250 ppm = ACGIH TLW STEL
78-93-3	Methyl Ethyl Ketone	10-15	200 ppm = ACGIH TLV TWA 200 ppm = ACGIH TLW STEL

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### SECTION 3 - HAZARDS IDENTIFICATION

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**Emergency Overview:** Extremely flammable. Harmful or fatal if swallowed. Vapor Harmful. Keep away from heat, sparks and flame. Can cause nervous system depression

**Effects of Overexposure:**

Preexisting skin, eye and respiratory disorders may be aggravated by exposure to this product. Impaired central nervous system functions from preexisting disorders may be aggravated by exposure.

- Skin Contact:** Moderately irritating to the skin. Prolonged contact may cause damage to the skin. Prolonged or repeated contact may result in defatting and drying of the skin which may result in dermatitis.
- Ingestion:** Product is presumed to be moderately toxic. Ingestion of as little as 1 to 4 ounces of Methanol may cause death or serious irreversible injury such as blindness. Other chemicals in the formula may cause kidney or liver, lung damage or central nervous system depression.
- Inhalation:** Exposure may produce irritation to the nose, throat, respiratory tract and other mucous membranes. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### SECTION 4 - FIRST AID MEASURES

**First Aid Procedures:**

- Ingestion:** Seek medical attention immediately. DO NOT induce vomiting. Never give anything by mouth to an unconscious person.
- Skin Contact:** Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Get medical attention immediately.

#### SECTION 5 - FIRE FIGHTING MEASURES

**Flash Point:** 0°F (<-20°C)

**Method Used:** TCC

**Flammable Limits in Air by Volume:** Not determined

**Extinguishing Media:** Carbon dioxide, dry chemical, foam, water fog

**Special Fire Fighting Procedures:** Extremely Flammable. Clear fire area of unprotected personnel. Do not enter confined fire space without helmet, face shield, bunker coat, gloves, rubber boots, and a positive pressure niosh-approved self-contained breathing apparatus..

**Unusual Fire and Explosion Hazards:** Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Containers that are exposed to direct flame should be cooled with water to eliminate structural weakening of the container's wall and possible rupture.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Spill/Leak Procedures: Large Spills:** Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms, water fog may be used to suppress; contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable materials; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above.

**Small spills:** Take up with absorbent materials and place in non-leaking containers; seal tightly for proper disposal.

#### SECTION 7 - HANDLING AND STORAGE

**Handling & Storage Procedures:** Keep liquid and vapor away from heat, sparks, and flame. Extinguish pilot lights, cigarettes

and turn off other possible sources of ignition prior to use and until vapors are gone. Surfaces that are sufficiently hot may ignite product in the absence of sparks or flame. Vapors may accumulate and travel to ignition sources distant from handling site. Keep containers closed when not in use. Use with adequate ventilation. Containers, even if empty, can contain explosive vapors or residues. Do not cut, drill, grind, or weld near containers.. KEEP OUT OF THE REACH OF CHILDREN.

**Other Precautions:** Materials can accumulate static charges which can cause an incendiary electrical discharge. Protect from direct sunlight. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated place. Keep away from heat, sparks and flame. Keep container closed when not in use.

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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Respiratory Protection:** NIOSH/MSHA approved respirators may be necessary if airborne concentrations are expected to exceed exposure limits.

**Engineering Controls:** Mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures or is agitated. Use explosion-proof ventilation equipment. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

**Skin Protection:** Wear long sleeves when contact is likely to occur. Wear impervious protective gloves.

**Eye Protection:** Safety glasses with splash guards or full face shield is recommended.

**Work/Hygienic Practices:** Do not eat, drink, or smoke in areas where this material is used. Wash hands before eating. Remove contaminated clothing and wash before reuse. Avoid breathing vapors. Wash thoroughly after handling. Eye washes and safety showers in the workplace are recommended.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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**Boiling Point:** 180°F (represents Boiling Point of lowest boiling raw material.)

**Specific Gravity (H<sub>2</sub>O=1):** 0.84

**Vapor Density (Air=1):** >1

**Evaporation Rate (Butyl Acetate = 1):** <1

**Appearance and Odor:** Appearance and Odor: Water white liquid, solvent odor

**Volatile Organic Compounds (VOC):** 100%

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## SECTION 10 - STABILITY AND REACTIVITY

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**Incompatibility (materials to avoid):** Prevent contact with strong oxidizing agents. Keep separate from alkalis. Prevent contact with halogens. Keep away from acids.

**Hazardous Decomposition or Byproducts:** During combustion carbon dioxide and carbon monoxide may be formed. Toxic gases/fumes are given off during burning or thermal decomposition.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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**Toxicological Data:**

LD50 mg/kg = 5045.0

LC50 mg/L = 16970.0

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**SECTION 12 - ECOLOGICAL INFORMATION**

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**Aquatic/Terrestrial Toxicity Environmental Fate** No data is available at this time.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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**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.

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**SECTION 14 - TRANSPORT INFORMATION**

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**US DOT & IMDG**

<b>Shipping Description:</b>	Flammable liquids, n.o.s. (heptane, isopropyl alcohol)
<b>ID Number:</b>	UN1993
<b>Hazard Class:</b>	3.2
<b>Packing Group:</b>	II
<b>Label:</b>	3.2

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**SECTION 15 - REGULATORY INFORMATION**

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**TSCA Inventory:** All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory of chemical substances maintained by the U.S. Environmental Protection Agency.**SARA Extremely Hazardous Substances** None**SARA Section 313** This product does not contain any toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313 – Toxic Chemical Release Reporting)**CERCLA/Superfund (RQ):** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.**California Proposition 65:** This product does not contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

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**SECTION 16 - OTHER INFORMATION**

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**Document Date:** 10/27/2008**Supersedes:** 1/04/2008**Revisions:** Cyclo Industries incorporated.  
10/27/2008: Review

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