

CYCLO[®] INDUSTRIES, LLC

MATERIAL SAFETY DATA SHEET

10190 Riverside Drive, Palm Beach Gardens, Florida 33410-4881

Phone: (561) 775-9600

First Aid Emergency: (800) 752-7869 Ext. 10 or (312) 906-6194 Ext. 10

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-41 Cyclo[®] Carb & Fuel Injector Cleaner

Common Code #: TK-285

Hazardous Material Description:

DOT – Cleaning Compound, N.O.I., Consumer Commodity ORM-D

IMDG – Dangerous Goods in Limited Quantities of Class 3.3

HMIS Code: Health = 2

Flammability = 2

Reactivity = 0

SECTION 2 - PHYSICAL DATA

Specific Gravity: 0.79 @ 15.6 / 15.6°C (target)

Solubility in Water: Negligible

Appearance and Odor: Light amber liquid with amine, aromatic odor.

SECTION 3 - HAZARDOUS INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
08008-20-6	Kerosene	75 – 95	100 mg/m ³ (ACGIH STEL) 100 mg/m ³ (OSHA STEL)
Proprietary	Alkoxylated polyol	5 – 10	Not established
Proprietary	Polyolefin phenol	5 – 10	Not established
Proprietary	Aromatic solvent naphtha	1 – 5	Not established

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

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 111°F minimum (43.9°C) Method Used: PMCC

Extinguishing Media: Use foam, dry chemical or water spray.

Flammable Limits In Air % By Volume: Not established

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

Effects of Overexposure:

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.

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

First Aid Procedures:

Ingestion: DO NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention. 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: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. 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

Hazardous Decomposition Products Under Fire Conditions: 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: Should be provided to control worker exposures and prevent health risk.

Personal Protection: For open systems where contact is likely, wear long sleeves, chemical-resistant gloves and chemical goggles. Where contact may occur, wear long sleeves and safety glasses with side shields.

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, if this product is subject to CERCLA reporting (see Section 10 REGULATORY INFORMATION) 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 an explosion proof or hand pump) or with 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 stay 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 containers 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.

Toxic gases will form upon combustion. 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.

Other precautions: "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner or properly disposed of. DO NOT reuse empty containers without commercial cleaning or reconditioning.

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 provisions of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met.

Date entered: 6/7/93

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