



CYCLO[®] 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.

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Cyclo[®] Diesel Fuel Treatment, Stock No. C-24

Product Use: Quickly dissolves gelled fuel and thaws frozen fuel filters

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 = 2 Reactivity = 0

NFPA Rating: Health = 2 Flammability = 2 Reactivity = 0

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
64742-88-7	Mineral spirits	60 – 80	100 ppm = ACGIH TLV 100 ppm = OSHA PEL
95-93-5	Ethylene vinyl acetate	0.1 – 10	Not established
111-76-2	2-Butoxethanol	0.1 – 10	Not established
64742-95-6	Aromatic solvent	15 – 25	Not established

SECTION 3 - HAZARDS IDENTIFICATION

Effects of Overexposure:

Ingestion: Ingestion of product may result in vomiting. Aspiration must be avoided as even small quantities may result in aspiration pneumonitis.

Inhalation: Vapors may cause irritation to nose, throat and respiratory tract. High vapor concentrations may result in central nervous system CNS depression. Symptoms may include drowsiness, weakness, headache, dizziness and nausea.

Skin Contact: Liquid is slightly irritatin to the skin. Prolonged or repeated liquid contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis.

Eye Contact: Slightly irritating, but will not injure eye tissue.

Signs and Symptoms: Irritation as noted above. Early to moderate CNS depression may be evidenced by giddiness, headache,

dizziness and nausea. In extreme cases, unconsciousness and death may occur. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis (bluish skin). In severe cases, death may occur.

Aggravated Medical Concerns: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

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

SECTION 4 - FIRST AID MEASURES

First Aid Procedures:

Ingestion: DO NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

Skin Contact: Remove contaminated clothing/shoes. Flush skin with water. Wash with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

Note to Physician: If more than 2.0 ml pre kg have been ingested and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: 145°F (63°C)

Method Used: TCC

Flammable Limits in Air by Volume: Lower Explosive Limit = 1 Upper Explosive Limit = 7.0

Extinguishing Media: Foam, dry chemical or carbon dioxide

Special Fire Fighting Procedures: Do not use a direct stream of water. Product will float and can be re-ignited on surface of water. Caution. Combustible. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-container breathing apparatus. Cool fire exposed containers with water.

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. Container areas exposed to direct flame contact should be cooled with large quantities as needed to prevent weakening of container structure. Includes oxides of carbon and nitrogen.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Caution: Combustible. **LARGE SPILLS:** Eliminate potential sources of ignition. Wear appropriate respiratory and other protective clothing. Shut off source of lead only if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay sand or other suitable. Place in non-leaking containers and seal tightly for proper disposal. Flush area with water to remove tract residue. Dispose of flush solution. **SMALL SPILLS:** Take up with absorbent material and place in a non-leaking container for proper disposal.

SECTION 7 - HANDLING AND STORAGE

Handling & Storage Procedures: Keep liquid and vapor away from heat, sparks and flame. Surfaces that are sufficiently hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off all sources of ignition sources distant from the handling site; flash fire can result. Keep containers closed when not in use. Use with adequate ventilation. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize drum containers to empty them. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment. Wash with soap and water before eating, drinking, smoking, applying cosmetics or using toilet facilities. Launder contaminated clothing before reuse. Air dry contaminated clothing in a well ventilated area before laundering. See product label for additional information. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Avoid prolonged or repeated breathing of vapors. If exposure may or does exceed occupational exposure limits (Section 2) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.132, use either an atmospheric-supplying respirator or an air-purifying respirator for organic vapors.

Ventilation: Use explosion proof ventilation required to control vapor concentrations.

Skin Protection: Avoid prolonged contact with skin. Wear chemical resistant gloves (nitrile) and other clothing as required to minimize contact.

Eye Protection: Avoid contact with eyes. Safety glasses with splash guards or full face shield is recommended.

Work/Hygienic Practices: Eye washes and safety showers in the workplace are recommended.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 350°F (177°C)

Specific Gravity (H₂O=1): 0.79 @60°F, typical

Vapor Pressure (mm Hg): <5 @ 100°F

Solubility in Water: Negligible

Evaporation Rate (Butyl Acetate = 1): 0.03

Appearance and Odor: Light to colored liquid, hydrocarbon odor.

Volatile Organic Compound (VOC): 4%

SECTION 10 - STABILITY AND REACTIVITY

Stability: Unstable

Conditions to Avoid: Avoid heat and flame.

Incompatibility (materials to avoid): Contact with strong oxidizing agents.

Hazardous Decomposition or Byproducts: Carbon monoxide and unidentified organic compounds may be formed during combustion

Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological Data: Long-term toxicological studies have not been conducted for this product. See Section 3 of this MSDS for acute symptoms of overexposure and carcinogenicity information.

SECTION 12 - ECOLOGICAL INFORMATION

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

SECTION 13 - DISPOSAL CONSIDERATIONS

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 14 - TRANSPORT INFORMATION

U.S. DOT

Shipping Description: Consumer Commodity ORM-D
ID Number: Not applicable
Hazard Class: ORM-D
Packing Group: Not applicable
Label: Not applicable
Placards: Not applicable

IMDG

Shipping Description: Flammable liquid N.O.S. (contains Petroleum distillates) Ltd. Qty.
ID Number: 1993
Hazard Class: 3
Packing Group: III
Label: Not applicable
Markings: Not applicable
Placards: Not applicable

SECTION 15 - REGULATORY INFORMATION

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 chemicals 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.

SECTION 16 - OTHER INFORMATION

Document Date: 10/23/08

Supersedes: 12/18/07

Revisions: **8/11/06:** Section 1 – address and corporate name; Section 2 – added Ethylene vinyl acetate and 2-Butoxethanol; Section 5 – added Explosion Limits; Section 9 – added VOC; added sections 11, 12 & 15.

12/18/07: Section 14 – updated.

10/23/08: Review

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