



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Marine Engine Tune-Up & Decarbonizer

Product Number (s): 06121

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-4620
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Amber liquid, camphor odor

DANGER

Extremely Flammable. Harmful or Fatal if Swallowed. Eye Irritant. Contents Under Pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

EYE: Eye contact may result in moderate to severe irritation and redness. May cause moderate corneal injury. Effects may be slow to heal.

SKIN: Short term contact with skin may cause slight irritation. Excessive or prolonged and repeated contact may result in irritation, dryness, dermatitis, erythema, oil acne, cracking and defatting of the skin.

INHALATION: Inhalation of vapors or mist may be irritating to the respiratory passages. Prolonged exposure may result in headache, dizziness and nausea.

INGESTION: Moderate toxicity if swallowed. May result in nausea or stomach discomfort. Main hazard is aspiration into the lungs of oil mist during swallowing or vomiting. This can lead to chemical pneumonitis.

CHRONIC EFFECTS: Unknown

TARGET ORGANS: lungs (oil mist), blood (hemolysis)

Medical Conditions Aggravated by Exposure:

Pre-existing skin disorders

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Hydrotreated naphthenic oil	64742-52-5 / 64742-53-6	50 - 60
2-Butoxyethanol	111-76-2	5 – 10
Aromatic hydrocarbons	64742-95-6 / 64742-94-5	5 - 10
Diacetone alcohol	123-42-2	2 - 6
Liquefied petroleum gas	68476-86-8	15 - 25

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: If swallowed, do NOT induce vomiting. Seek immediate medical attention.

Note to Physicians: This product contains 2-butoxyethanol which, if ingested in significant quantities, may result in red blood cell hemolysis.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6)).

Flash Point:	151.2 F (TCC)	Upper Explosive Limit:	ND
Autoignition Temperature:	> 600 F	Lower Explosive Limit:	ND

Suitable Extinguishing Media: Halon, dry chemical, foam, CO2, water mist or fog, any Class B extinguishing agent.

Products of Combustion: Fumes, smoke, carbon monoxide, sulfur oxides

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Eliminate sources of ignition. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Keep away from flames, sparks or hot surfaces. Use with adequate ventilation. Avoid contact with eyes and skin. Wash thoroughly after handling and before contacting food.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing. Keep out of reach of children.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Hydrotreated naphthenic oil	5*	NE	5*	10*	NE		mg/m ³
2-Butoxyethanol	50 (s)	NE	20	NE	NE		ppm
Aromatic hydrocarbons	NE	NE	NE	NE	NE		
Diacetone alcohol	50	NE	50	NE	NE		ppm
Liquefied petroleum gas	1000	NE	1000	NE	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated * – oil mist							

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid
Color: amber
Odor: camphor
Specific Gravity: 0.910
Initial Boiling Point: ND
Freezing Point: ND
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: < 1 (ether = 1)
Solubility: negligible
pH: NA
Volatile Organic Compounds: wt %: 36.4 g/L: 331.2 lbs./gal: 2.76

Section 10: Stability and Reactivity

Stability: Stable
Conditions to Avoid: Sources of ignition
Incompatible Materials: Strong oxidizers, halogens
Hazardous Decomposition Products: Oxides of carbon and sulfur.
Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Hydrotreated naphthenic oil	LD50	> 5000 mg/kg	Oral	Rat
Hydrotreated naphthenic oil	LD50	> 2000 mg/kg	Dermal	Rabbit
Hydrotreated naphthenic oil	LC50	2.18 mg/L/4H	Inhalation	Rat

CHRONIC EFFECTS

Carcinogenicity:

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

Mutagenicity: Hydrotreated naphthenic oil Mutagenic index of less than 1.0

Other: IARC has determined in reviewing cancer prevalence of exposed workers that the carcinogenic activity of refined oils is related to the severity of processing of the base oil. The base oils contained in this product have been highly refined to remove aromatics, thus reducing carcinogenic potential.

IP346: DMSO < 3.0%

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: hydrotreated naphthenic oil – 96 Hr LC50, Fathead minnow: >30,000 mg/L (static)
2-Butoxyethanol 96 Hr LC50, Bluegill sunfish: 1490 mg/L
Persistence / Degradability: This product is not readily biodegradable.
Bioaccumulation / Accumulation: No information available
Mobility in Environment: No information available

Section 13: Disposal Considerations

Disposal: The dispensed liquid product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)
Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled or discarded.

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories: Fire Hazard Yes
Reactive Hazard No
Release of Pressure Yes
Acute Health Hazard Yes
Chronic Health Hazard No

Section 313 Toxic Chemicals: This product contains the following substances 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:
glycol ethers (8%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: Naphthalene (trace)

State Right to Know:

New Jersey: 111-76-2, 68476-86-8, 123-42-2
Pennsylvania: 111-76-2, 68476-86-8, 123-42-2
Massachusetts: 111-76-2, 68476-86-8, 123-42-2
Rhode Island : 111-76-2, 68476-86-8, 123-42-2

Additional Regulatory Information: This product cannot be sold for use in California. In other states with consumer products VOC regulations, this product is compliant as a Carburetor Cleaner.

Section 16: Other Information

NFPA: Health: 2 Flammability: 2 Reactivity: 0
HMIS: Health: 2 Flammability: 2 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick
CRC #: 684
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Changes since last revision: Section 15: Additional Regulatory Information revised

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS: Chemical Abstract Service NA: Not Applicable
ppm: Parts per Million ND: Not Determined
TCC: Tag Closed Cup NE: Not Established
PMCC: Pensky-Martens Closed Cup g/L: grams per Liter
PPE: Personal Protection Equipment lbs./gal: pounds per gallon
TWA: Time Weighted Average STEL: Short Term Exposure Limit
OSHA: Occupational Safety and Health Administration
ACGIH American Conference of Governmental Industrial Hygienists
NIOSH National Institute of Occupational Safety & Health