



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Marine Fuel System Cleaner & Stabilizer

Product Number (s): 06151

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) 272-8963
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: light yellow liquid, mild odor

DANGER

Harmful or Fatal if Swallowed. Harmful if Inhaled.

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

Potential Health Effects:

- EYE:** May cause weak to moderate eye irritation.
- SKIN:** Causes skin irritation. Prolonged or repeated contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying and cracking of the skin.
- INHALATION:** May cause irritation to the nose, throat and lungs. High concentrations may cause headaches, dizziness, nausea, stupor and other central nervous system effects leading to visual impairment, difficulty breathing and convulsions.
- INGESTION:** Swallowing this material cause irritation of the mouth, esophagus and stomach, with nausea, vomiting, diarrhea and abdominal pain. Material may be aspirated into the lungs during the act of swallowing or vomiting, leading to chemical pneumonitis.
- CHRONIC EFFECTS:** Repeated overexposure can cause central nervous system damage.
- TARGET ORGANS:** Central nervous system

Medical Conditions Aggravated by Exposure: pre-existing skin and respiratory conditions

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

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Hydrocarbon solvent	64741-86-2	40 – 50
Alkylamine	proprietary	30 – 40
Petroleum naphtha	64742-94-5	1 – 5
Naphthalene	91-20-3	0.2

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:** Do NOT induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention. If vomiting occurs naturally, the victim should lean forward to reduce the risk of aspiration.
- Note to Physicians:* Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal.

Section 5: Fire-Fighting Measures

- Flammable Properties:** As defined by OSHA, this product is a Class IIIA combustible liquid.
- | | | | |
|---------------------------|----------------|------------------------|----|
| Flash Point: | 165.2 F (PMCC) | Upper Explosive Limit: | ND |
| Autoignition Temperature: | ND | Lower Explosive Limit: | ND |
- Suitable Extinguishing Media:** CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.
- Products of Combustion:** Toxic fumes, gases or vapors may evolve on burning.
- 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: Remove sources of ignition. Dike area to contain spill. 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 potential sources of ignition. Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Wash thoroughly after handling.

Storage Procedures: Store in a cool dry area out of direct sunlight. Store in a well ventilated area. Keep out of reach of children.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Hydrocarbon solvent	NE	NE	NE	NE	NE		
Polyether amine	NE	NE	NE	NE	NE		
Petroleum naphtha	NE	NE	NE	NE	NE		
Naphthalene	10	15 (v)	10	15	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. 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. Use a NIOSH-approved cartridge respirator with a combination organic vapor and high efficiency filter cartridge if vapors exceed exposure limits. 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 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: Light yellow

Odor: mild

Specific Gravity: 0.89

Initial Boiling Point: ND
Freezing Point: ND
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: ND (ether = 1)
Solubility: Insoluble
pH: NA
Volatile Organic Compounds: wt %: 50 g/L: 445 lbs./gal: 3.7

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: None determined

Incompatible Materials: Strong acids, strong oxidizing agents

Hazardous Decomposition Products: Thermal: Smoke, oxides of carbon, aldehydes, ammonia, propylamine, polyalkylglycols, and aliphatic alcohols.

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>
Hydrocarbon solvent	LD50	7400 mg/kg	Oral	Rat
Hydrocarbon solvent	LD50	> 2000 mg/kg	Dermal	Rabbit
Hydrocarbon solvent	LC50	4.6 mg/L/4H	Inhalation	Rat

CHRONIC EFFECTS

Carcinogenicity:

	<u>Component</u>	<u>Result</u>
OSHA:	Naphthalene	Hazard communication carcinogen
IARC:	Naphthalene	2B – Possibly carcinogenic to humans
NTP:	Naphthalene	Reasonably anticipated to be a carcinogen

Mutagenicity: No information available

Other: None

Section 12: Ecological Information

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

Ecotoxicity: Hydrocarbon solvent -- 96 Hr LC50 Pimephales promelas: 35 mg/L [flow-through]

Persistence / Degradability:	At least 25% of the components in this product show moderate biodegradation based on OECD 302-type test data.
Bioaccumulation / Accumulation:	25% or greater of the components potentially bioconcentrate, based on octanol/water coefficients.
Mobility in Environment:	No information available.

Section 13: Disposal Considerations

Disposal: This product, if discarded, is a RCRA hazardous waste for the characteristic of toxicity with a waste code of D018 (0.0002% Benzene). (See 40 CFR Part 261.20 – 261.33)

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): Not Regulated

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: Naphthalene (100 lbs)

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	No
	Acute Health Hazard	Yes
	Chronic Health Hazard	Yes

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:
Naphthalene (0.2%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): Naphthalene

State RegulationsCalifornia 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 (0.2%)

State Right to Know:

New Jersey: 800967-5485P, 800967-5491P, 800967-5502P, 91-20-3
 Pennsylvania: 91-20-3
 Massachusetts: 91-20-3
 Rhode Island : 91-20-3

Additional Regulatory Information: None**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 #: 674A
 Revision Date: 9/20/2006

Changes since last revision: MSDS reformatted in accordance with ANSI Z400.1-2004

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		