



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: PhaseGuard4® Ethanol Fuel Treatment

Product Number (s): 06141, 06142, 06143

Product Use: Fuel treatment and stabilizer

Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

www.crcindustries.com

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

www.crc-canada.ca

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

www.crc-mexico.com

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

DANGER: Combustible. Harmful or Fatal if Swallowed. May Cause Eye and Skin Irritation.

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

Appearance & Odor: Dark red / brown liquid, amine odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause mild to moderate eye irritation. Symptoms include stinging, tearing, and redness.

SKIN: May cause moderate to strong skin irritation depending on duration of exposure. Symptoms may include redness, burning, drying and cracking of the skin, burns and other skin damage. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during normal use.

INHALATION: Breathing large amounts may be harmful. Symptoms include irritation of the nose, throat and airways. Extended exposure may lead to central nervous system depression, including dizziness, drowsiness, weakness, fatigue, nausea, headache and unconsciousness. May aggravate asthma or other respiratory conditions.

INGESTION: Ingestion may cause gastrointestinal disturbance, including irritation, nausea, vomiting and diarrhea. The major health threat of ingestions occurs from the danger of aspiration of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia, severe lung damage and even death.

CHRONIC EFFECTS: Prolonged or repeated exposure to vapors may lead to central nervous system effects.

TARGET ORGANS: Central nervous system, skin (allergic reaction)

Medical Conditions Aggravated by Exposure: None known

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

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Mineral spirits	8052-41-3	60 - 70
Hydrocarbon solvent	64741-86-2	15 - 25
Substituted alkyl phenol	NJRTK 800967-5491P	3 - 6
Alkylated phenol	NJRTK 800967-5523P	3 - 6
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. Discard leather articles saturated with material.
- 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. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Mouth can be rinsed to dissipate the taste.

Note to Physicians: Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is a Class II combustible liquid.
Flash Point: 108°F / 42°C (seta) Upper Explosive Limit: 6.0
Autoignition Temperature: 450°F Lower Explosive Limit: 1.0

Fire and Explosion Data:

- Suitable Extinguishing Media: Use extinguishers rated to Class B fires, such as dry chemical, Halon, fire fighting foam or CO₂
- Products of Combustion: Oxides of carbon and nitrogen, aldehydes
- Explosion Hazards: Containers, when exposed to heat from fire, may build pressure and rupture.
- 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.

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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 all 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 heat, sparks and open flame. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion. Provide adequate ventilation during use. Do not breathe vapors. Keep containers closed when not in use. Wash hands after use. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage. Store in a well ventilated area. Do not store at high temperature for long periods of time. 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	
Mineral spirits	500	NE	100	NE	NE		ppm
Hydrocarbon solvent	5	NE	100 (s)	NE	NE		mg/m ³
Substituted alkyl phenol	NE	NE	NE	NE	NE		
Alkylated phenol	NE	NE	NE	NE	NE		
Naphthalene	10	NE	10	15	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Controls and Protection:

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. Air monitoring is needed to determine actual employee exposure levels. Use a NIOSH-approved 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, neoprene or PVC. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

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Section 9: Physical and Chemical Properties

Physical State: liquid
 Color: dark red/brown
 Odor: amine
 Odor Threshold: ND
 Specific Gravity: 0.80
 Initial Boiling Point: > 300°F / > 150°C
 Freezing Point: ND
 Vapor Pressure: ND
 Vapor Density: > 1 (air = 1)
 Evaporation Rate: slow
 Solubility: negligible in water
 Coefficient of water/oil distribution: ND
 pH: NA
 Volatile Organic Compounds: wt %: 65.6 g/L: 524.8 lbs./gal: 4.38

Section 10: Stability and Reactivity

Stability: Stable
 Conditions to Avoid: Temperature extremes, sources of ignition
 Incompatible Materials: Strong oxidizers
 Hazardous Decomposition Products: Oxides of carbon, nitrogen, aldehydes
 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 Toxicity:

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Mineral spirits	> 5 g/kg	> 3 g/kg	> 1400 ppm/8H
Hydrocarbon solvent	> 5 g/kg	> 2 g/kg	No data
Substituted alkyl phenol	No data	No data	No data
Alkylated phenol	No data	No data	No data
Naphthalene	No data	> 20 g/kg	490 mg/kg

Chronic Toxicity:

Component	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen	Irritant	Sensitizer
Mineral spirits	No	No	No	E (mild) / S (mild)	Unknown
Hydrocarbon solvent	No	No	No	Unknown	Unknown
Substituted alkyl phenol	No	No	No	Unknown	Unknown
Alkylated phenol	No	No	No	Unknown	Unknown
Naphthalene	No	Group 2B	Reasonably Anticipated to be a Human Carcinogen	E (moderate) / S (mild) / R (moderate)	Unknown

E – Eye	S – Skin	R - Respiratory
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Reproductive Toxicity: No information available
Teratogenicity: No information available
Mutagenicity: No information available
Synergistic Effects: No information available

Section 12: Ecological Information

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

Ecotoxicity: No information available
Persistence / Degradability: No information available
Bioaccumulation / Accumulation: No information available
Mobility in Environment: No information available

Section 13: Disposal Considerations

Waste Classification: This product is a RCRA hazardous waste for the ignitability characteristic: D001. (See 40 CFR Part 261.20 – 261.33)
Empty containers may be recycled.

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

Section 14: Transport Information

US DOT (ground): Consumer Commodity, ORM-D
ICAO/IATA (air): Flammable liquids, N.O.S. (Mineral spirits, Hydrocarbon solvent), UN1993, 3, PGIII, Limited Quantity
IMO/IMDG (water): Flammable liquids, N.O.S. (Mineral spirits, Hydrocarbon solvent), UN1993, 3, PGIII, Limited Quantity
Special Provisions: None

Section 15: Regulatory Information

U.S. Federal Regulations:

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

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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 (0.17%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

U.S. 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: Ethylbenzene (0.07%),
Naphthalene (0.17%)

Consumer Products VOC Regulations: This product is not regulated.

State Right to Know:

New Jersey: 8052-41-3, 64741-86-2, 800967-5523P, 800967-5548P, 800967-5491P
Pennsylvania: 8052-41-3
Massachusetts: 8052-41-3
Rhode Island : 8052-41-3

Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: B3, D2B

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

European Union Regulations:

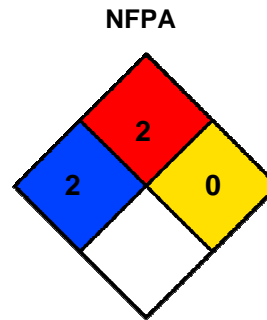
RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

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Section 16: Other Information

HMIS® (II)	
Health:	2
Flammability:	2
Reactivity:	0
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

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CRC #: 923
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Changes since last revision: Trademark changed from ™ to ®

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. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists	NA: Not Applicable
CAS: Chemical Abstract Service	ND: Not Determined
CFR: Code of Federal Regulations	NIOSH: National Institute of Occupational Safety & Health
DOT: Department of Transportation	NFPA: National Fire Protection Association
DSL: Domestic Substance List	NTP: National Toxicology Program
g/L: grams per Liter	OSHA: Occupational Safety and Health Administration
HMIS: Hazardous Materials Identification System	PMCC: Pensky-Martens Closed Cup
IARC: International Agency for Research on Cancer	PPE: Personal Protection Equipment
IATA: International Air Transport Association	ppm: Parts per Million
ICAO: International Civil Aviation Organization	RoHS: Restriction of Hazardous Substances
IMDG: International Maritime Dangerous Goods	STEL: Short Term Exposure Limit
IMO: International Maritime Organization	TCC: Tag Closed Cup
lbs./gal: pounds per gallon	TWA: Time Weighted Average
LC: Lethal Concentration	WHMIS: Workplace Hazardous Materials Information System
LD: Lethal Dose	