

Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Eastwood® Fuel Guard™ Ethanol Protection Formula

Product Number (s): 12735Z

Manufactured For:

The Easthill Group
Dba The Eastwood Company
263 Shoemaker Road
Pottstown, PA 19464

USA & Canada
Outside USA

1-800-345-1178
(610) 323-2200

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

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Amber liquid, faint petroleum odor

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

Potential Health Effects:

EYE: Eye contact may result in light irritation and redness.

SKIN: Short term contact with skin is unlikely to cause any problems. Excessive or prolonged and repeated contact may result in 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 dizziness and nausea.

INGESTION: May result in nausea or stomach discomfort.

CHRONIC EFFECTS: None known

TARGET ORGANS: lungs (oil mist)

Medical Conditions Aggravated by Exposure:

Pre-existing skin disorders

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

Product Name: Eastwood® Fuel Guard™ Ethanol Protection Formula**Product Number (s):** 12735Z**Section 3: Composition/Information on Ingredients**

COMPONENT	CAS NUMBER	% by Wt.
Hydrotreated naphthenic oil	64742-52-5 / 64742-53-6	90 – 99
Hydroxyethylated aminoethylamide	proprietary	2 - 5
Petroleum naphtha	64742-88-7	1 - 3

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, observe for signs of stomach discomfort or nausea. If symptoms persist, seek medical help. Do not induce vomiting. If there is any suspicion of aspiration into lungs, obtain immediate medical attention.

Note to Physicians: Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is a Class IIIB combustible liquid (not regulated).

Flash Point:	> 315 F (COC)	Upper Explosive Limit:	ND
Autoignition Temperature:	> 600 F	Lower Explosive Limit:	ND

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

Products of Combustion: Fumes, smoke, carbon monoxide.

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

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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. Wash thoroughly after handling and before handling food. Use proper grounding and bonding techniques when transferring material.

Storage Procedures: Store in a cool dry area out of direct sunlight. Keep containers closed when not in use.

Aerosol Storage Level: NA

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
Hydroxyethylated aminoethylamide	NE	NE	NE	NE	NE		
Petroleum naphtha	NE	NE	NE	NE	NE		
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: faint petroleum

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Specific Gravity: 0.901

Initial Boiling Point: ND

Freezing Point: ND

Vapor Pressure: ND

Vapor Density: > 5 (air = 1)

Evaporation Rate: < 1 (ether = 1)

Solubility: negligible

pH: NA

Volatile Organic Compounds: wt %: 2.6 g/L: 23.4 lbs./gal: 0.2**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 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 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.

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

Section 13: Disposal Considerations

Disposal: This product is not a RCRA hazardous waste. (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: 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	No
	Reactive Hazard	No
	Release of Pressure	No
	Acute Health Hazard	No
	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:
 None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

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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: ethylbenzene (< 0.03%)

State Right to Know:

New Jersey: 800967-5341P, 800967-5548P, 95-63-6, 100-41-4
 Pennsylvania: 95-63-6, 100-41-4
 Massachusetts: 95-63-6, 100-41-4
 Rhode Island : 95-63-6, 100-41-4

Additional Regulatory Information: None

Section 16: Other Information

NFPA:	Health: 1	Flammability: 1	Reactivity: 0	
HMIS:	Health: 1	Flammability: 1	Reactivity: 0	PPE: B

Revision Date: 8/10/2010

Changes since last revision: New product

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 our knowledge or obtained from sources believed 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		

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