

## Safety Data Sheet

### Section 1: Identification

<b>Product Identifier</b>	• <b>Ethanol</b>
<b>Synonyms</b>	• Denatured Fuel Ethanol; Ethyl Alcohol
<b>Relevant identified uses of the substance or mixture and uses advised against</b>	
<b>Recommended use</b>	• Fuel/Fuel Additive
<b>Restrictions on use</b>	• All others
<b>Details of the supplier of the safety data sheet</b>	
<b>Manufacturer</b>	• Guttman Energy, Inc. 200 Speers Street Belle Vernon, PA 15012 United States www.guttmanenergyfuels.com safety@guttmangroup.com
<b>Emergency telephone number</b>	
<b>Manufacturer</b>	• 1-800-535-5053 - INFOTRAC

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

<b>OSHA HCS 2012</b>	• Flammable Liquids 2 Skin Irritation 2 Eye Irritation 2 Acute Toxicity Inhalation 3 Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects Germ Cell Mutagenicity 2
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#### Label elements

OSHA HCS 2012

#### DANGER



<b>Hazard statements</b>	• Highly flammable liquid and vapor Causes skin irritation Causes serious eye irritation Toxic if inhaled May cause drowsiness or dizziness Suspected of causing genetic defects.
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## Precautionary statements

### Prevention

- Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground and/or bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing mist, vapors and/or spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.

### Response

- In case of fire: Use appropriate media for extinction.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician.  
If on skin: Wash with plenty of water .  
Specific treatment, see supplemental first aid information.  
Take off contaminated clothing and wash before reuse.  
If skin irritation occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF exposed or concerned: Get medical advice/attention.

### Storage/Disposal

- Store in a well-ventilated place. Keep container tightly closed.  
Keep cool.  
Store locked up.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### Supplemental information

- 0-5 percent of this product consists of an ingredient of unknown toxicity.

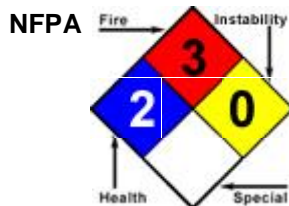
### Other hazards

#### OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

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## Other information



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## Section 3 - Composition/Information on Ingredients

### Substances

Ethanol

- Material does not meet the criteria of a substance.

## Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Ethanol	CAS:64-17-5	94% TO 100%	Ingestion/Oral-Rat LD50 • 7060 mg/kg Inhalation-Rat LC50 • 20000 ppm 10 Hour(s)	OSHA HCS 2012: Flam. Liq. 2; Acute Tox. 3 (Inh); Skin Irrit. 2; Eye Irrit. 2; Muta. 2; STOT SE 3: Narc.;	NDA
C4-8 Petroleum hydrocarbons	CAS:68425-31-0	0% TO 5%	NDA	OSHA HCS 2012: Not Classified	NDA
Benzene	CAS:71-43-2	0% TO 0.011%	Ingestion/Oral-Rat LD50 • 930 mg/kg Inhalation-Rat LC50 • 10000 ppm 7 Hour(s) Skin-Rabbit LD50 • >9400 µL/kg	OSHA HCS 2012: Exposure limits	NDA

## Section 4: First Aid Measures

### Description of first aid measures

- Inhalation** • Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.
- Skin** • In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention.
- Eye** • In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion** • Rinse mouth. Do NOT induce vomiting. Obtain medical attention immediately if ingested.

### Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### Indication of any immediate medical attention and special treatment needed

- Notes to Physician** • All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5: Fire Fighting Measures

### Extinguishing media

- Suitable Extinguishing Media** • CAUTION: For mixtures containing a high percentage of an alcohol or polar solvent, alcohol-resistant foam may be more effective.  
SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.  
LARGE FIRES: Water spray, fog or alcohol-resistant foam.

Ethanol

**Unsuitable**

- Avoid using direct water stream.

**Extinguishing Media**

**Special hazards arising from the substance or mixture**

**Unusual Fire and Explosion Hazards**

- **HIGHLY FLAMMABLE:** Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

**Hazardous Combustion Products**

- No data available

**Advice for firefighters**

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Move containers from fire area if you can do it without risk. **LARGE FIRES:** Cool containers with flooding quantities of water until well after fire is out.

**Section 6 - Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**

- **CAUTION:** Victim may be a source of contamination. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE)

**Emergency Procedures**

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. **LARGE SPILL:** Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

**Environmental precautions**

- Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Containment/Clean-up Measures**

- Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors. All equipment used when handling the product must be grounded. **LARGE SPILLS:** Dike far ahead of spill for later disposal. **LARGE SPILLS:** Water spray may reduce vapor; but may not prevent ignition in closed spaces.

**Section 7 - Handling and Storage**

**Precautions for safe handling**

Ethanol

**Handling** • Keep away from heat, sparks, and flame. Do not use sparking tools. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Do not breathe mist, vapors and/or spray. Avoid contact with skin, eyes or clothing. Wear appropriate personal protective equipment, avoid direct contact. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### Conditions for safe storage, including any incompatibilities

**Storage** • Store in a tightly closed container. Store in a cool/low-temperature, well-ventilated place.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Benzene (71-43-2)	Ceilings	Not established	Not established	25 ppm Ceiling
	STELs	2.5 ppm STEL	1 ppm STEL	5 ppm STEL (see 29 CFR 1910.1028)
	TWAs	0.5 ppm TWA	0.1 ppm TWA	10 ppm TWA (applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028); 1 ppm TWA
Ethanol (64-17-5)	TWAs	Not established	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
	STELs	1000 ppm STEL	Not established	Not established

### Exposure controls

#### Engineering

#### Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

### Personal Protective Equipment

#### Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced. Organic vapor chemical cartridge or supplied air respirators should be worn for exposures to any components exceeding the established exposure limits.

#### Eye/Face

- Wear safety goggles.

#### Skin/Body

- Use nitrile rubber, viton or PVA gloves for repeated or prolonged skin exposure. Wear long sleeves and/or protective coveralls.

#### General Industrial Hygiene

#### Considerations

- Always handle products in accordance with best industrial hygiene and safety practices in mind, specifically avoiding contact with skin, eyes and clothing.

#### Environmental

#### Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	A clear/colorless liquid with a slight to mild odor.
Color	Clear/Colorless	Odor	Slight to mild odor.
Odor Threshold	No data available		
General Properties			
Boiling Point	165 to 175 F(73.8889 to 79.4444 C)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 0.79 Water=1	Water Solubility	100 % Complete
Viscosity	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	1.6 Air=1
Evaporation Rate	No data available	Volatiles (Wt.)	100 %
Volatiles (Vol.)	100 %		
Flammability			
Flash Point	49 to 55 F(9.4444 to 12.7778 C)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

## Section 10: Stability and Reactivity

### Reactivity

- No dangerous reaction known under conditions of normal use.

### Chemical stability

- Stable under normal temperatures and pressures.

### Possibility of hazardous reactions

- Hazardous polymerization not indicated.

### Conditions to avoid

- Keep away from heat, sparks, and flame.

### Incompatible materials

- No data available

### Hazardous decomposition products

- No data available

## Section 11 - Toxicological Information

### Information on toxicological effects

Components		
Ethanol (94% TO 100%)	64-17-5	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 7 g/kg; Ingestion/Oral-Human TDLo • 0.5 g/kg; <i>Behavioral:Somnolence (general depressed activity); Behavioral:Changes in psychophysiological tests;</i> Ingestion/Oral-Man TDLo • 3371 µL/kg; <i>Behavioral:Altered sleep time (including change in righting reflex); Behavioral:Excitement;</i>

## Ethanol

		<p><b>Behavioral:Coma</b>; Ingestion/Oral-Rat TDLo • 8000 mg/kg; <b>Brain and Coverings:Other degenerative changes</b>; <b>Cardiac:Cardiomyopathy including infarction</b>; <b>Liver:Multiple effects</b>; Inhalation-Rat LC50 • 5900 mg/m<sup>3</sup> 6 Hour(s); <b>Irritation</b>: Eye-Rabbit • 500 mg • Severe irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation; <b>Multi-dose Toxicity</b>: Ingestion/Oral-Rat TDLo • 188 g/kg 25 Day(s)-Intermittent; <b>Liver:Fatty liver degeneration</b>; <b>Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Multiple enzyme effects</b>; <b>Biochemical:Metabolism (intermediary):Lipids, including transport</b>;</p> <p><b>Mutagen</b>: Cytogenetic analysis • Ingestion/Oral-Human • 49014 g/kg 25 Year(s); Dominant lethal test • Ingestion/Oral-Mouse • 3720 mg/kg 3 Day(s); Sperm Morphology • Ingestion/Oral-Mouse • 1500 mg/kg 50 Day(s); <b>Reproductive</b>: Ingestion/Oral-Rat TDLo • 12 g/kg (9-12D preg); <b>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus)</b>; Ingestion/Oral-Woman TDLo • 5860 mL/kg (3Y pre-100D post); <b>Reproductive Effects:Specific Developmental Abnormalities:Craniofacial (including nose and tongue)</b>; <b>Reproductive Effects:Effects on Newborn:Behavioral</b>; <b>Reproductive Effects:Effects on Newborn:Delayed effects</b>;</p> <p><b>Tumorigen / Carcinogen</b>: Ingestion/Oral-Mouse • 400 g/kg 57 Week(s)-Intermittent; <b>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria</b>; <b>Gastrointestinal:Tumors</b>; Ingestion/Oral-Mouse TDLo • 320 mg/kg 50 Week(s)-Intermittent; <b>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria</b>; <b>Liver:Tumors</b>; <b>Blood:Lymphoma, including Hodgkin's disease</b></p>
Benzene (0% TO 0.011%)	71- 43- 2	<p><b>Acute Toxicity</b>: Ingestion/Oral-Rat LD50 • 930 mg/kg; <b>Behavioral:Tremor</b>; <b>Behavioral:Convulsions or effect on seizure threshold</b>; Inhalation-Rat LC50 • 10000 ppm 7 Hour(s); Inhalation-Human TCLo • 50 mg/m<sup>3</sup> 2 Hour(s); <b>Behavioral:Changes in psychophysiological tests</b>; <b>Behavioral:Muscle weakness</b>; Inhalation-Rat TCLo • 1 ppm 6 Hour(s); <b>Kidney, Ureter, and Bladder:Other changes in urine composition</b>; Skin-Rabbit LD50 • &gt;9400 µL/kg; <b>Irritation</b>: Eye-Rabbit • 2 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation; <b>Multi-dose Toxicity</b>: Inhalation-Mouse TCLo • 100 ppm 2 Week(s)-Intermittent; <b>Endocrine:Differential effect of sex or castration on observed toxicity</b>; <b>Blood:Leukopenia</b>; <b>Blood:Changes in bone marrow not included above</b>; Inhalation-Mouse TDLo • 100 ppm 6 Hour(s) 10 Day(s)-Intermittent; <b>Blood:Changes in other cell count (unspecified)</b>; <b>Blood:Changes in leucocyte (WBC) count</b>; <b>Blood:Changes in erythrocyte (RBC) count</b>;</p> <p><b>Mutagen</b>: Dominant lethal test • Ingestion/Oral-Mouse • 1 mg/kg; Cytogenetic analysis • Inhalation-Human • 0.1 ppm; Cytogenetic analysis • Inhalation-Human • 125 ppm 1 Year(s); Sister chromatid exchange • Inhalation-Mouse • 10 ppm 6 Hour(s); Micronucleus test • Inhalation-Rat • 1 ppm 6 Hour(s);</p> <p><b>Reproductive</b>: Inhalation-Mouse TCLo • 5 ppm (6-15D preg); <b>Reproductive Effects:Effects on Embryo or Fetus:Cytological changes</b>; <b>Reproductive Effects:Specific Developmental Abnormalities:Blood and lymphatic system</b>; Inhalation-Mouse TCLo • 20 ppm 6 Hour(s)(6-15D preg); <b>Reproductive Effects:Specific Developmental Abnormalities:Blood and lymphatic system</b>; Inhalation-Rat TCLo • 670 mg/m<sup>3</sup> 24 Hour(s)(15D pre/1-22D preg); <b>Reproductive Effects:Effects on Fertility:Female fertility index</b>; Parenteral-Mouse TDLo • 4 g/kg (12D preg); <b>Reproductive Effects:Effects on Newborn:Weaning or lactation index</b>;</p> <p><b>Tumorigen / Carcinogen</b>: Inhalation-Human • 150 ppm 15 Minute(s) 8 Year(s)-Intermittent; <b>Tumorigenic:Carcinogenic by RTECS criteria</b>; <b>Blood:Leukemia</b>; Inhalation-Human • 10 mg/m<sup>3</sup> 11 Year(s)-Intermittent; <b>Tumorigenic:Carcinogenic by RTECS criteria</b>; <b>Blood:Leukemia</b></p>

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012•No data available
Serious eye damage/Irritation	OSHA HCS 2012•Eye Irritation 2
Acute toxicity	OSHA HCS 2012•Acute Toxicity - Inhalation 3 - ATEmix (inhl, vapors) = 7.69 mg/L
Aspiration Hazard	OSHA HCS 2012•No data available
Carcinogenicity	OSHA HCS 2012•No data available
Germ Cell Mutagenicity	OSHA HCS 2012•Germ Cell Mutagenicity 2
Skin corrosion/Irritation	OSHA HCS 2012•Skin Irritation 2
Skin sensitization	OSHA HCS 2012•No data available
STOT-RE	OSHA HCS 2012•No data available
STOT-SE	OSHA HCS 2012•Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	OSHA HCS 2012•No data available

## Potential Health Effects

### Inhalation

Ethanol

**Acute (Immediate)** • Toxic if inhaled. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

**Chronic (Delayed)** • No data available

### Skin

**Acute (Immediate)** • Causes skin irritation.

**Chronic (Delayed)** • No data available

### Eye

**Acute (Immediate)** • Causes serious eye irritation.

**Chronic (Delayed)** • No data available

### Ingestion

**Acute (Immediate)** • May cause irritation.

**Chronic (Delayed)** • No data available

**Mutagenic Effects** • Repeated and prolonged exposure may cause mutagenic effects.

**Carcinogenic Effects** • This material does contain a component that may cause cancer, however based on regulatory criteria this material is not classified as a carcinogen.

Carcinogenic Effects				
	CAS	OSHA	IARC	NTP
Benzene	71-43-2	Specifically Regulated Carcinogen	Group 1-Carcinogenic	Known Human Carcinogen

#### Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

## Section 12 - Ecological Information

### Toxicity

• Non-mandatory section information about this substance not compiled for this reason.

### Persistence and degradability

• Non-mandatory section information about this substance not compiled for this reason.

### Bioaccumulative potential

• Non-mandatory section information about this substance not compiled for this reason.

### Mobility in Soil

• Non-mandatory section information about this substance not compiled for this reason.

### Other adverse effects

• Non-mandatory section information about this substance not compiled for this reason.

## Section 13 - Disposal Considerations



**Waste treatment methods**

**Product waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transport Information**

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NA1987	Flammable Liquids, n.o.s (Contains Ethanol)	3	II	NDA

**Special precautions for user**

• None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available

**Section 15 - Regulatory Information****Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Hazard Classifications**

• Acute, Chronic, Fire

Inventory		
Component	CAS	TSCA
Benzene	71-43-2	Yes
C4-8 Petroleum hydrocarbons	68425-31-0	Yes
Ethanol	64-17-5	Yes

**United States****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

•C4-8 Petroleum hydrocarbons

68425-31-0 Not Listed

•Benzene

71-43-2 Not Listed

•Ethanol

64-17-5 Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**

•C4-8 Petroleum hydrocarbons

68425-31-0 Not Listed

•Benzene

5 ppm STEL (See 29 CFR 1910.1028, 15 min); 0.5 ppm Action Level; 1 ppm TWA

•Ethanol

64-17-5 Not Listed

**Environment****U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

•C4-8 Petroleum hydrocarbons

68425-31-0 Not Listed

•Benzene

(including Benzene from gasoline)

•Ethanol

64-17-5 Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

•C4-8 Petroleum hydrocarbons

68425-31-0 Not Listed

•Benzene

10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ

Ethanol

(received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule)

•Ethanol	64-17-5	Not Listed
<b>U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities</b>		
•C4-8 Petroleum hydrocarbons	68425-31-0	Not Listed
•Benzene	71-43-2	Not Listed
•Ethanol	64-17-5	Not Listed
<b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs</b>		
•C4-8 Petroleum hydrocarbons	68425-31-0	Not Listed
•Benzene	71-43-2	Not Listed
•Ethanol	64-17-5	Not Listed
<b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs</b>		
•C4-8 Petroleum hydrocarbons	68425-31-0	Not Listed
•Benzene	71-43-2	Not Listed
•Ethanol	64-17-5	Not Listed
<b>U.S. - CERCLA/SARA - Section 313 - Emission Reporting</b>		
•C4-8 Petroleum hydrocarbons	68425-31-0	Not Listed
•Benzene	71-43-2	0.1 % de minimis concentration
•Ethanol	64-17-5	Not Listed
<b>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</b>		
•C4-8 Petroleum hydrocarbons	68425-31-0	Not Listed
•Benzene	71-43-2	Not Listed
•Ethanol	64-17-5	Not Listed

**United States - California**

**Environment**

**U.S. - California - Proposition 65 - Carcinogens List**

•C4-8 Petroleum hydrocarbons	68425-31-0	Not Listed
•Benzene	71-43-2	carcinogen, initial date 2/27/87
•Ethanol	64-17-5	carcinogen, initial date 4/29/11 (in alcoholic beverages)

**U.S. - California - Proposition 65 - Developmental Toxicity**

•C4-8 Petroleum hydrocarbons	68425-31-0	Not Listed
•Benzene	71-43-2	developmental toxicity, initial date 12/26/97
•Ethanol	64-17-5	developmental toxicity, initial date 10/1/87 (in alcoholic beverages)

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

•C4-8 Petroleum hydrocarbons	68425-31-0	Not Listed
•Benzene	71-43-2	24 µg/day MADL (oral); 49 µg/day MADL (inhalation)
•Ethanol	64-17-5	Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

•C4-8 Petroleum hydrocarbons	68425-31-0	Not Listed
•Benzene	71-43-2	6.4 µg/day NSRL (oral); 13 µg/day NSRL (inhalation)
•Ethanol	64-17-5	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

•C4-8 Petroleum hydrocarbons	68425-31-0	Not Listed
•Benzene	71-43-2	Not Listed
•Ethanol	64-17-5	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

•C4-8 Petroleum hydrocarbons	68425-31-0	Not Listed
•Benzene	71-43-2	male reproductive toxicity, initial date 12/26/97
•Ethanol	64-17-5	Not Listed

## Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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### Section 16 - Other Information

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**Revision Date**

- 30/November/2015

**Preparation Date**

- 06/November/2015

**Disclaimer/Statement of Liability**

- The information herein is given in good faith but no warranty, expressed or implied, is made.

**Key to abbreviations**

NDA = No Data Available

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