

Material Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

1. Product and Company Identification	
Product Name Ignite Racing Fuel	MSDS Code Number CIE 003
Trade Name & Synonyms Ethanol	Date of Last Revision 07-Jan-2010
Chemical Name Ethyl Alcohol	Manufacturer Central Indiana Ethanol, LLC
C.A.S. Number 0064-17-5	Address 2955 West Delphi Pike, Marion, IN 46952
Grades or Minor Variant Identities N/A	Information Telephone Number (765) 384-4001
	Foreign Emergency Telephone Number
Product Use (for Canada) Racing Fuel	Emergency Telephone Number (800) 424-9300

2. Composition/Information on Ingredients			
Hazardous Components	C.A.S. Number	Exposure Limits	%
Ethanol	0064-17-5	1000 OSHA TWA min	70.00
Natural Gasoline	8006-61-9	ACGIH TLV-TWA/STEL 300/500 ppm A3	2.00
Regular Unleaded Gasoline	86290-81-5	300 ppm TWA / 500 ppm STEL max	27.80
Corrosion Inhibitor	64742-94-5		0.20
OSHA Regulatory Status Hazardous Material			

3. Hazards Identification					
Emergency Overview Flammable liquid, irritant, intoxicant, moderately toxic					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Irritation	Single	Mild	long term damage	Eye
Skin	dry skin, irritation	Single	Mild	irritation	Skin
Inhalation	difficulty breathing, headache drowsiness	Single	Mild	Irritation, fatigue, disorientation	Lungs, Bronchial
Ingestion	intoxication, convulsions, coma	Single	Severe	systemic body damage	Digestive Tract
Other	None				
Medical Conditions Aggravated by Exposure Respiratory Diseases, skin ailments, heart, kidney and liver conditions					
Carcinogenicity (OSHA, IARC, NTP) IARC: Human Sufficient Evidence, Group 1; NTP: Known Human Carcinogen					
Potential Environmental Effects Highly toxic to aquatic life					

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush with water for 15 minutes	Yes	long term damage
Skin	Wash with soap and water for 15 minutes, remove contaminated clothing	Yes	Irritation
Inhalation	Remove to fresh air; CPR if not breathing	Yes	Irritation, fatigue, disorientation
Ingestion	Get medical attention	Yes	systemic body damage
Other	None		
Note to Physicians (Treatment, Testing, and Monitoring)			
None			

5. Fire Fighting Measures

Flashpoint Method: 172 °F	Flammable (Explosive) Limits in Air LEL 3.3 UEL 19.0	Autoignition Temperature 685 °F	Other None
Flame Propagation or Burning Rate (for solids) N/A	Properties Contributing to Fire Intensity	Flammability Classification 3	
Extinguishing Media CO2, AFFF AR	Extinguishing Media to Avoid	Reactions to Extinguishing Media pool fire expansion	
Protection and Procedures for Firefighters Flood with fine water spray, Do Not scatter spilled liquid with high pressure sprays. Stay upwind and out of low areas			
Unusual Fire and Explosion Hazards None			

6. Accidental Release Measures

Containment Techniques Absorbents, dikes, booms
Spill/Leak Clean-up Procedures and Equipment Collect liquid in containers avoiding sparks, heat sources, and avoid personal risk
Evacuation Procedures Move upwind from spill area
Special Instructions
Reporting Requirements Reportable under SARA Title III Section 304

7. Handling and Storage

Handling Practices and Warnings Use caution when handling flammable liquids
Storage Practices and Warnings Store in accordance with OSHA 29 CFR 1910.106. Grounding and bonding required.

8. Exposure Control/Personal Protection

Ventilation	Other Engineering Controls Explosion-resistant exhaust ventilators	
Routes of Entry:	Personal Protective Equipment (PPE) for Normal Use:	PPE for Emergencies:
Eye/Face	Splash resistant goggles with face shield	Emergency Shower and Eye Wash in immediate area
Skin	Chemical resistant clothing and gloves	Same
Inhalation	None	Supplied air or Self contained breathing apparatus
General Hygiene Considerations and Work Practices Avoid bodily contact, wash skin thoroughly with soap and water if exposed		
Protective Measures During Repair and Maintenance of Contaminated Equipment Remove all ethanol prior to any Hot Work being performed. Use non-sparking tools.		
Other Protective Measures and Equipment None		

9. Physical and Chemical Properties

Appearance Clear Liquid		Odor Strong Aromatic
Normal Physical State: <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Solid _____ (Other)	Boiling Point 172 °F	Melting Point °F
	Freezing Point -179 °F	
Specific Gravity or Density (H ₂ O = 1) .79	Solubility in Water Partial	pH 6.5 - 9.0
Vapor Pressure (mm Hg.) 40 @19 deg C	Vapor Density (AIR = 1) 1.59	Evaporation Rate (Butyl Acetate = 1) 3.2
Other None		

10. Stability and Reactivity

Incompatibility (Materials to Avoid) halo carbons, metals, metal salts, oxidizing materials, halogens, peroxides, acids, metal oxides, bases, combustible materials	
Hazardous Products Produced During Decomposition oxides of carbon	
Hazardous Polymerization? <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions to Avoid heat, sparks, flames and any ignition source
Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data 20000 ppm/10hours inhalation-rat LC50; 7 gm/kg oral-rat LD50 NTP: known human carcinogen; IARC: Human Sufficient Evidence, Group 1; ACGIH: A4- Not classifiable as Human Carcinogen

12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

Highly toxic to aquatic life

13. Disposal Considerations

Regulations

USEPA 40 CFR 262. Hazardous Waste Number: D001

Properties (Physical/Chemical) Affecting Disposal

Flammable Liquid

NOTE: State or local requirements may differ from federal regulations. Processing or using this product may make the information here inappropriate. Waste generators are responsible for waste classification, transport, and disposal.

14. Transport Information

Regulated for shipping?

Yes No

Proper Shipping Name

Alcohols n.o.s.

Packing Group

II

Do changes in quantity, packaging, or shipment method change product classification?

Yes No

Hazard Class

3

Identification Number

1987

Other

None

15. Regulatory Information

Federal Regulations (OSHA, TSCA, CERCLA, FIFRA, EPCRA, CAA, CWA, SDWA, CPSA, DEA, FDA/USDA, etc.)

OSHA Hazardous Material; SARA Title III Section 311/312 - Acute / Chronic, Fire; US Inventory (TSCA)

State Regulations

None specifically

International Regulations

Canada: WHMIS Classification: This MSDS meets all requirements of CPR

Other

None

16. Other Information

Label Text, Hazard Rating Systems, Key Legend, or Other

None