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|---------------------|---|
| Health | 2 |
| Fire | 3 |
| Reactivity | 0 |
| Personal Protection | |

Material Safety Data Sheet

200 Proof Ethyl Alcohol

Section 1: Chemical Product and Company Identification

Product Name: 200 Proof Ethyl Alcohol
For HES Internal use: 190 Proof, Regen, Reflux

Contact Information:

Homeland Energy Solutions. LLC
2779 Hwy 24
Lawler, IA 52154

RTECS:

563-238-5555

TSCA: Yes

Order online:

CI# Not available.

Synonym: Ethyl Alcohol Absolute
Dehydrated Ethanol, Anhydrous Ethanol

Chemical Name: 200 Proof Ethyl Alcohol

Chemical Formula: CH₃ CH₂ OH

For non-emergency assistance, call 563-238-5555

Section 2: Composition and Information on Ingredients

| Name | CAS # | % by Weight |
|-------------------------|---------|-------------|
| 200 Proof Ethyl Alcohol | 64-17-5 | 100% |

OSHA Hazardous Components (29CFR 1910.1200)
Toxicological Data on Ingredients: TWA 1000ppm

Section 3: Hazards Identification

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not classified as a human carcinogen.

Eye Contact: May cause irritation including stinging, tearing and redness.

Skin Contact: No evidence of harmful effects from available information.

Skin Absorption: No harmful affects with normal skin.

Inhalation: High vapor concentration may cause burning sensation in nose and throat and stinging and watering eyes. At concentrations which cause irritation , dizziness, faintness, drowsiness, nausea and vomiting may occur.

Ingestion: Material is non-toxic by ingestion.

Chronic: Asthma, bronchitis, chronic obstructive pulmonary disease, conjunctivitis, dermatitis, rhinitis, grain fever.

Effects of Repeated Exposure: Long term repeated oral exposure to ethanol may result in development of progressive liver injury with fibrosis.

Other Health Hazards: Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects which together constitute fetal alcohol syndrome. These include mental and physical retardation, disturbances of learning and motor and language deficiencies, behavioral disorders and small head size.

Section 4: First Aid Measures

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult oxygen may be given by qualified personnel.

Eye Contact: Flush eyes with water for at least 15 minutes.

Skin Contact: Wash skin with soap and water of at least 15 minutes.

Ingestion: If patient is fully conscious, give two glasses of water. Induce vomiting. Obtain medical attention.

Section 5: Fire and Explosion Data

Flammability Classification: 3 (NFPA)

Flash Points: 58 F(14C) – Closed Cup 70 F(21C) Open Cup

Flammable Limits: In Air – 3.3 – 19% by volume

Products of Composition: Carbon oxides including carbon monoxide and carbon dioxide.

General Hazards: Fugitive grain dust is combustible and present and explosion hazard. Avoid the use of compressed air to blow dust from ledges, walls and other areas when there are ignition sources in the area.

Fire Fighting Instructions: Apply alcohol type or all purpose foam by manufacturers recommendations for large fires. Use of carbon dioxide or dry powder for small fires.

Fire Fighting Equipment: Use water spray to cool fire exposed containers and structures. Use water spray to disperse vapors, re-ignition is possible. Use SCBA and protective clothing

Vapors may travel to source of ignition and flash back, vapors may settle in low areas, may produce a floating fire hazard, static ignition hazard can result from handling and use.

Section 6: Accidental Release Measures

Small Spill: Can be flushed with large amounts of water. Prevent spilled materials from sewers, storm drains.

Large Spill: Eliminate all ignition sources: ground all equipment; do not walk through spill; stop the spill if possible; prevent entry into sewers, confined spaces, etc: use a vapor suppressing foam to reduce vapors; absorb with non-combustible matter and transfer to containers; use non-sparking tools to collect absorbed material.

Section 7: Handling and Storage

Storage: Storage Temperature – Ambient Storage Pressure – Atmospheric

General: Keep container closed. Loosen closure cautiously before opening. Store in cool dry, well ventilated place away from incompatible materials such as oxidizing agents, acids or caustics.

Keep away from heat, flame or sparks

Protect material from direct sunlight and moisture intrusion.

Section 8: Exposure Controls/Personal Protection

Personal Protection: Air Purifying Respirator with Organic Vapor Cartridges.

Chemical Impervious Gloves.

Approved eyewear and depending on the conditions a face shield may be necessary.

Impervious clothing.

Section 9: Physical and Chemical Properties

Physical State and Appearance: Liquid

Vapor Pressure: 40@20 C

Odor: Gasoline, Alcohol smell

Appearance: Clear

pH (1% soln/water): 7-9

Boiling Point: 165 – 175 F

Solubility: 10% by weight

Vapor Density: >1

Specific Gravity: .79

Section 10: Stability and Reactivity

General: This product is stable and hazardous polymerization will not occur.

Incompatible Materials and Conditions to Avoid: Incompatible materials such as oxidizing agents, acids or caustics.

Hazardous Decomposition: Combustion can yield carbon, nitrogen and sulfur oxides.

Section 11: Toxicological Information

Toxicity to Animals: NA

Chronic Effects on Humans: Contact, especially if prolonged or repeated may cause redness, itching or blistering of the skin.

Section 12: Ecological Information

Ecotoxicity: NA

BOD5 and COD: NA

Products of Biodegradation: NA

Section 13: Disposal Considerations

Waste Disposal: This material is RCRA characteristic hazardous waste due to ignitability. If spilled and the release impacts soil or water or other media, testing of the contaminated material may be required prior to disposal.

Section 14: Transport Information

DOT Classification: UN1170, 3 PGII
Identification: Ethyl Alcohol
Special Provisions for Transport: NA

Section 15: Other Regulatory Information

Federal and State Regulations:

TSCA 8(b) Inventory: Components of this product are listed under the TSCA Inventory.

SARA Title III: Components of this product are listed under this statute.

CERCLA: Acetone, Methanol, Acetaldehyde

Section 16: Other Information

References: Legend Technical Services, Inc.

Created: 12/15/2004

Last Updated: 04/23/2009

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection:

National Fire Protection Association (U.S.A.)

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard: NA

Complies with WHMIS Requirements in Canada.

OSHA Requirements in USA

Prepared by: Tom Denstedt, Larry Pascal

This information relates to this specific material. It may not be valid for this material if it is used in combination with any other materials or in any process. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information of this information for his own particular use. All materials may present unknown hazards and should be used with caution although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.