

# SAFETY DATA SHEET



Date Prepared : 02/21/2017

MSDS No : TPEA200

## ETHYL ALCOHOL 200 PROOF

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ETHYL ALCOHOL 200 PROOF

**RESELLER:**

Summit Research Tech  
5346 Scotts Valley Dr.  
Scotts Valley, CA 95066  
Tel: +1 (831) 226 2948

**24 HR. EMERGENCY TELEPHONE NUMBERS**

**CHEMTREC (US Transportation) :**(800) 424 - 9300  
**CANUTEC (Canadian Transportation) :**(613) 996 - 6666

### 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS**

**Health:**

Eye Irritation, Category 2A

**Physical:**

Flammable Liquids, Category 2

**GHS LABEL**



Flame



Exclamation  
mark

**SIGNAL WORD:** DANGER

**HAZARD STATEMENTS**

H319: Causes serious eye irritation.

H225: Highly flammable liquid and vapour.

**PRECAUTIONARY STATEMENT(S)**

**General:**

P270: Do not eat, drink or smoke when using this product.

P103: Read label before use.

P281: Use personal protective equipment as required.

**Prevention:**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**ETHYL ALCOHOL 200 PROOF**

P240: Ground and bond container and receiving equipment.

P243: Take action to prevent static discharges.

P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242: Use non-sparking tools.

**Response:**

P312: Call a POISON CENTER/doctor/...if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P312: IF INHALED: Call a POISON CENTER/doctor/...if you feel unwell.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**Storage:**

P233: Keep container tightly closed.

P234: Keep only in original packaging.

P102: Keep out of reach of children.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

**Disposal:**

P273: Avoid release to the environment.

4160WT6Y: Dispose of contents/container to an approved waste disposal plant.

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** DANGER! Highly flammable liquid and vapor. Harmful or fatal if swallowed.

Vapor harmful. May cause central nervous system depression. May be irritating to eyes, skin, nose, throat and respiratory tract.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Liquid is moderately irritating to the eyes. High vapor concentrations may also be irritating. Direct contact with the liquid or exposure to its vapors or mists may cause stinging, tearing, redness, swelling and eye damage.

**SKIN:** Liquid is mildly irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**INGESTION:** Ingestion of excessive quantities may cause irritation of the digestive tract and signs of nervous system depression (headache, drowsiness, dizziness, loss of coordination and fatigue).

**INHALATION:** May cause mild irritation to the nose, throat and respiratory tract and may result in central nervous system (CNS) depression.

**MEDICAL CONDITIONS AGGRAVATED:** Preexisting diseases in or history of ailments involving skin, central nervous system, liver and kidney.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Vol. %	CAS
Ethanol	≥ 100	64-17-5

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical

## ETHYL ALCOHOL 200 PROOF

attention, if irritation occurs or persists.

**SKIN:** Wash with soap and water for at least 15 minutes. Get medical attention, if irritation develops or persists.

**INGESTION:** DO NOT INDUCE VOMITING. Do not attempt to give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**ACUTE EFFECTS:** Shortness of breathing, confused behavior, redness of skin, swelling of tissues, watery eyes, and nausea.

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use "alcohol resistant" foam, dry chemical, or CO<sub>2</sub>. Water may be ineffective, but water applied as a spray can absorb some of the fire's heat and should be used to keep fire-exposed containers cool.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

**EXPLOSION HAZARDS:** When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

**FIRE FIGHTING PROCEDURES:** WARNING! Flammable Liquid. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water.

## 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** WARNING. Flammable. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

**COMMENTS:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ETHYL ALCOHOL 200 PROOF****EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m <sup>3</sup>
Ethanol	OSHA PEL	TWA	1000	1900
	ACGIH TLV	TWA	1000	1884
	Supplier OEL	TWA	400	980
		STEL	400	1,225

**ENGINEERING CONTROLS:** Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

**SKIN:** Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**RESPIRATORY:** If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

**PROTECTIVE CLOTHING:** Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.

**WORK HYGIENIC PRACTICES:** Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**COMMENTS:** May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**ODOR:** Alcohol odor.

**COLOR:** Clear, colorless liquid.

**pH:** NA = Not Applicable

**PERCENT VOLATILE:** 100

**FLASHPOINT AND METHOD:** (57°F) TAG CC

**FLAMMABLE LIMITS:** 0.033 to 0.19

**AUTOIGNITION TEMPERATURE:** (685°F)

**ETHYL ALCOHOL 200 PROOF**

**VAPOR PRESSURE:** 44.6 mm Hg at 20°C (68°F)

**VAPOR DENSITY:** Heavier than air.

**BOILING POINT:** (173°F)

**FREEZING POINT:** NDA = no data available.

**MELTING POINT:** (-173°F)

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** Not Available

**DENSITY:** 6.62

**SPECIFIC GRAVITY:** 0.78 to 0.80

**10. STABILITY AND REACTIVITY**

**REACTIVITY:** Yes

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Avoid heat, sparks, flame and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120 deg. F.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide and unidentified organic compounds may be formed during combustion. There should be no decomposition if stored and applied as directed.

**INCOMPATIBLE MATERIALS:** This product is incompatible with strong acids or bases, oxidizers, alkali metals, and halogens.

**11. TOXICOLOGICAL INFORMATION****ACUTE TOXICITY**

**DERMAL LD<sub>50</sub>:** 15800 mg/kg (rabbit)

**ORAL LD<sub>50</sub>:** 10470 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** 30000 mg/l (rat), 4 hour(s)

**SERIOUS EYE DAMAGE/IRRITATION:** May be irritating to skin and eyes on prolonged exposure.

**CARCINOGENICITY**

**NOTES:** Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by IARC, NTP, or OSHA.

**REPRODUCTIVE TOXICITY:** This product contains ethanol. Alcoholic beverage consumption has been associated with birth defects in humans. The relevance of this finding to ethanol exposure in industrial environments is uncertain. Exposure of rats to the light ends of gasoline at up to 20,000 mg/m<sup>3</sup> had generally no impact upon reproductive abilities and did not cause birth defects.

**STOT-SINGLE EXPOSURE:** This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, heart damage, and pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain.

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

**ETHYL ALCOHOL 200 PROOF**

**BIOACCUMULATION/ACCUMULATION:** Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

**AQUATIC TOXICITY (ACUTE)**

**96-HOUR LC<sub>50</sub>:** 142000 mg/L (Pimephales promelas)

**48-HOUR EC<sub>50</sub>:** 5012 mg/l (Water Flea)

**96-HOUR EC<sub>50</sub>:** 9.6 mg/l (72 hr.) (green algae)

**CHEMICAL FATE INFORMATION:** Readily Biodegradable: 95%

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

**EMPTY CONTAINER:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

**RCRA/EPA WASTE INFORMATION:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Ethanol

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** UN 1170

**PACKING GROUP:** II

**NAERG:** 127

**LABEL:** Flammable liquid

**15. REGULATORY INFORMATION****UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Flammable  
Liquid

S28: After contact with skin, wash immediately with plenty of water and soap.

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**ETHYL ALCOHOL 200 PROOF**

**311/312 HAZARD CATEGORIES:** This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** To the best of our knowledge, this product is not listed as a toxic chemical under Section 313 of SARA Title III.

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** To the best of our knowledge, this product is not listed as an extremely hazardous substance.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** Listed.

**CANADA****WHMIS HAZARD SYMBOL AND CLASSIFICATION**

Flammable  
Liquid

**GENERAL COMMENTS:** The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

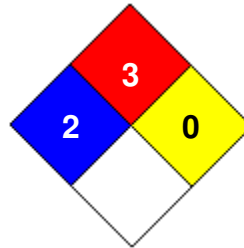
**16. OTHER INFORMATION**

**APPROVED BY:** Compliance

**PREPARED BY:** Compliance **Date Prepared:** 02/21/2017

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>2</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<input checked="" type="checkbox"/>	<b>X</b>

**NFPA CODES**

**NFPA STORAGE CLASSIFICATION:** These ratings are part of a specific hazard communication program and should be disregarded where individuals are not trained in the use of this hazard rating system. You should be familiar with the hazard communication programs applicable to your workplace.

**HMIS RATINGS NOTES:** The HMIS rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in the SDS must be considered. Personal protection rating to be supplied by user depending on use conditions.

**MANUFACTURER DISCLAIMER:** The information contained herein is based on the data available to us and is believed to be accurate. However, Summit Research Technology makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Summit assumes no responsibility for injuries from the use of the product described herein.