

Section 1: Identification

Product Name	Dehydrated Alcohol, USP (Ethanol 200 Proof)	
Commercial Name	Not available.	
Product Use	For professional use only.	
Restrictions On Use	Not available.	
Product Code	50-2999	
Company	PCCA 9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760	In case of emergency contact: CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com:	Flammable liquid - Category 2 Serious eye damage/eye irritation - Category 2
CFR 1910.1200	
Signal Word	DANGER
Hazard Statement(s)	Highly flammable liquid and vapor. Causes serious eye irritation.
Pictogram(s) or Symbol(s)	


Precautionary Statement(s):

Prevention	P233 – Keep container tightly closed P240 – Ground/Bond container and receiving equipment. P241 – Use explosion-proof electrical, lighting, ventilating equipment. P242 – Use only non-sparking tools. P243 – Take precautionary measures against static discharge. P264 – Wash hands, forearms, and exposed areas thoroughly after handling. P280 – Wear eye protection, protective gloves, protective clothing.
Response	P303+P361+P353 – IF ON SKIN OR HAIR: Take off immediately all contaminated clothing. Rinse skin with water/shower. P337+P378 – If eye irritation persists: get medical advice / attention. P370+P378 – In case of fire: Use appropriate media to extinguish.
Storage	P403+P235 – Store in a well ventilated place. Keep cool.
Disposal	P501 – Dispose of contents / container in accordance with local, regional national, territorial provincial and international regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture	Substance
Components	Ethyl Alcohol, Anhydrous, 200 Proof, USP
% By Weight	99.5+
CAS#	64-17-5
Molecular Weight	Not available.
Chemical Formula	C ₂ H ₆ O
Synonym(s)	Absolute Ethanol * Aethanol (German) * Aethylalkohol (German) * Alcohol * Alcohol, Anhydrous * Alcohol Dehydrated * Alcoolethylque (French) * Alcool Etilico (Italian) * Algrain * Alkohol (German) * Alcool Etilico (Italian) * Algrain * Alkohol (German) Alkohol Etylowego (Polish) * Anhydrol * Cologne Spirit * Colognespirits (DOT) * Etanolo (Italian) * Ethanol * Ethanol (DOT, OSHA) * Ethanol, Solution (DOT) * Ethanol 200 Proof * Ethyl Alcohol (ACGIH, DOT, OSHA) * Ethylalcohol (Dutch) * Ethyl Alcohol Anhydrous * Ethylhydrate * Ethyl Hydroxide * Etylowy Alkohol (Polish) * Fermentationalcohol * Grain Alcohol * Jaysol * Jaysol S * Methylcarbinol Molasses Alcohol * NCI-C03134 * Potato Alcohol * SD Alcohol 23-Hydrogen * Spirits of Wine * Spirt * Tecsol *



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Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Ethyl Alcohol, Anhydrous, 200 Proof, USP	64-17-5	99.5+	N/A	N/A

Section 4: First-Aid Measures

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing and shoes thoroughly, before reuse. Get medical attention.
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion	Conscious or able to swallow - have victim drink water or milk to dilute. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth if unconscious or convulsing. If large quantities of this material are swallowed call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.
Symptoms/Effects	
Acute	General: Causes serious eye irritation. Inhalation: Prolonged exposure to liquid may cause a mild irritation. Skin Contact: Repeated or prolonged skin contact may cause dermatitis and defatting. Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Ingestion: Ingestion of this product is extremely harmful to human health. Nausea and vomiting, higher exposure causes unconsciousness
Delayed	Chronic Symptoms: None expected under normal conditions of use.

Immediate Medical Attention

If medical advice is needed, have product container or label at hand.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.

Unsuitable Extinguishing Media

Do not use water jet.

Products of Combustion

Not available.

Firefighters Special Equipment and Precautions

Special Fire Fighting Procedures: If leak/spill hasn't ignited, use water spray to disperse vapors and protect people attempting to stop leak. Water spray may be used to flush spills away from exposure and to dilute spills to non-flammable mixtures. In the event of a fire, wear full protective clothing and NIOSH- approved self-containing breathing apparatus with full facepiece in pressure demand or other positive pressure mode. Water can be used to extinguish flames and cool fire-exposed containers.

Section 6: Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriated container or absorb with an inert material (vermiculite, dry sand, earth, etc.), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer!

Section 7: Handling and Storage

Handling: Protect against physical damage. Keep away from heat, sparks, and flame. Avoid contact with eyes. Keep container closed. Use with adequate ventilation. Ground container when transferring. Vapors may collect in containers. Treat empty containers as hazardous. Sudden release of hot organic chemical vapors/mists from process equipment operating at elevated temperatures may result in ignition with out the presence of obvious ignign sources. Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Exposure Limits Not available.

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Engineering Controls

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 9: Physical and Chemical Properties

Appearance	Clear and colorless.		
Odor	Not available.		
Odor Threshold	Not available.		
Melting Point	-173F	pH	Not available.
Freezing Point	113.8 °C (237 °F)	Vapor Pressure	44.6 MMHG @ 20 °C
Boiling Point/Range	78 °C (174 °F)	Vapor Density	1.59 (Air = 1)
Decomposition temperature	Not available.	Viscosity	1.2 cP @ 20°C (68°F)
Partition Coefficient: n-octanol/water	Not available.	Evaporation Rate	3.0
Flash Point	14 °C (57 °F) CC	Autoignition temperature	Static discharge could act as an igr
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	3.3%
		Upper	19.0%
Solubility(ies)	Miscible in all proportions		
Other	Hygroscopic		

Section 10: Stability and Reactivity

Reactivity	Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.
Chemical Stability	The product is stable under normal conditions
Hazardous Polymerization	Hazardous polymerization will not occur.
Conditions to Avoid	Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources.
Incompatible Materials	Strong oxidants, silver salts, acid chlorides, alkali metals, metal hydrides, hydrazine, and many other substances.
Hazardous Decomposition Products	Carbon dioxide, Carbon monoxide

Section 11: Toxicological Information

RTECS KQ6300000

Acute Toxicity

Acute Toxicity: Not classified Skin Corrosion/Irritation: Not classified Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified Germ Cell Mutagenicity: Not classified Teratogenicity: Not classified

Carcinogenicity: Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified Reproductive Toxicity: Not

classified Specific Target Organ Toxicity (Single Exposure): Not classified Aspiration Hazard: Not classified

Skin Corrosion/Irritation

Not available

Serious Eye Damage/Irritation

Not available

Respiratory or Skin Sensitization

Not available

Germ Cell Mutagenicity

Investigated as a tumorigen, mutagen

Carcinogenicity

Not classifiable as a human carcinogen.

Reproductive Toxicity

Ethanol has been linked to birth defects in humans

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Routes of Entry

Not available.

Symptoms Related to Exposure

Headache, drowsiness, lassitude, loss of appetite, inability to concentrate, irritation of throat/eye /skin, depression of Central Nervous System, nausea, vomiting, diarrhea, skin defatting.

Potential Health Effects

Acute:Inhalation: May cause irritation to the mucous membranes of the upper respiratory tract. Exposure over 1000 ppm may cause headache,drowsiness, lassitude, loss of appetite, inability to concentrate, throat irritation Ingestion: Can cause depression of Central Nervous System, nausea, vomiting, diarrhea, intoxication, and in acute cases, death Eye: Liquid and vapor may cause irritation. Splashes may cause temporary pain and blurred vision Skin: May cause irritation, cracking, flaking, and defatting of skin on prolonged contact. Chronic Exposure: Prolonged skin contact causes drying and cracking of skin. May affect nervous system, liver, blood, reproductive system.

Target Organ(s) MAY AFFECT LIVER, BLOOD, REPRODUCTIVE SYSTEM.

Section 12: Ecological Information**Ecotoxicity**

Toxicity: LC50 Fish 1 12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) EC50 Daphnia 1 9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna) LC 50 Fish 2 > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) Mobility in Soil: Not available Other Adverse Effects: Avoid release to the environment

Persistence and Degradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Oral rat LD50: 7060 mg/kg; inhalation rat LC50: 20,000 ppm /10H; Irritation data, eye, rabbit: 50 mg /24H Severe; Investigated as a tumorigen, mutagen, reproductive effector. Reproductive: Ethanol has been linked to birth defects in humans. Carcinogenicity: ACGIH: A4 — not classifiable as a human carcinogen

Section 13: Disposal Considerations**Waste Disposal**

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved waste facility. Processing, use, or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

Disposal of Container

Not available

Other Considerations

Not available

Section 14: Transport Information**DOT Classification**

Domestic (Land, D.O.T.) Proper Shipping Name: Alcoholic Beverage Hazard Class: 3 (Flammable Liquid) UN/NA: UN3065 Packing Group: II Emergency Response Guide #127 International (Water, I.M.O.) Proper Shipping Name: Alcoholic Beverage Hazard Class: 3.2 (Flammable Liquid) UN: UN3065 Packing Group: II Emergency Response Guide #127

Section 15: Regulatory Information**Regulations**

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TSCA CAS#64-17-5 is listed on the TSCA inventory Health and Safety Reporting List: None. Chemical Test Rules: None. Section 12 b: None TSCA Significant New Use Rule: None EPCRA Section 302: None Section 304: None SARA Codes: CAS# 64-17-5: Acute, chronic, flammable. Section 313: None CERCLA Section 103: None. Clean Air Act Hazardous Air Pollutants: None Class 1 Ozone Depletors: None Class 2 Ozone Depletors: None Clean Water Act Hazardous Substances: None Priority Pollutants: None Toxic Pollutants: None Canadian Domestic Substance List (DSL): all components are included on the DSL.

Other

Ethyl alcohol may be regulated under numerous state and federal regimes including at the federal level the Federal Alcohol Administration Act, the Resource Conservation and Recovery Act, the Toxic Substance Control Act and the Hazardous Materials Regulations. Undertake due diligence to ensure compliance with the relevant authority.

Section 16: Other Information

Date of Revision: May 13, 2015 Revision Number: 1 Party Responsible for the Preparation of this Document: The Regulatory Affairs office of The Warner Graham Company 160 Church Lane Cockeysville MD 21030 The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. The information herein is given in good faith, but no warranty, expressed or implied, is made.