



BUILDING VISION AND VARIETY

Date: 3/1/2020

Product Code(s): EA-70

SAFETY DATA SHEET

1. Identification

Product Name: Ethyl Alcohol 70%
Product Code(s): EA-70
SDS Date: 3/1/2020
Use: Industrial

Address: BVV
1251 Frontenac Rd. Ste 150
Naperville IL 60563
Phone: (331) 281-0154

CHEMTEL: (800) 255-3924

2. Hazard(s) Identification

GHS Classification

Flammable liquids (Category 2)

Pictogram



Signal Word

Danger

Hazard Statement

Highly flammable liquid and vapor.

Precautionary

Harmful if swallowed.
Causes eye irritation.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid breathing dust/fumes/gas/mist/vapours/spray.
Store in a well-ventilated place. Keep container tightly closed.
Keep out of reach of children.

Hazards Not Otherwise Classified:

Not Available

3. Composition/Information On Ingredients

Name	Cas	Concentration
Ethanol	64-17-5	62-70%
RO Water	7732-18-5	30-38%

4. First-aid Measures

If Inhaled:	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.
In Case of Skin Contact:	Wash with soap and water for at least 15 minutes. Get medical attention, if irritation develops or persists.
In Case of Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention, if irritation occurs or persists.
If Swallowed:	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.
Most Important Symptoms and Effects, Both Acute and Delayed:	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 ₂ . 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.
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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

Name	CAS					
	Ethanol 64-17-5					
	OSHA PEL		ACGIH TLV		Supplier OEL	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
TWA	1000	1900	1000	1884	400	980
STEL					400	1,225

Engineering Control:	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.
Eye/Face Protection:	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 Protection:	Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.
Body Protection:	Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.
Respiratory Protection:	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.
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

Appearance:	Ethanol	Liquid
Odor:	Ethanol	Alcohol Odor
pH:	Ethanol	Not Applicable
Melting/Freezing Point:	Ethanol	No Data Available
Initial Boiling Point/Range:	Ethanol	173°F
Flash Point:	Ethanol	60°F
Evaporation Rate:	Ethanol	Slower than ether
Flammability:	Ethanol	3.3% to 19%
Vapor Density:	Ethanol	Heavier than air
Relative Density:	Ethanol	7.34 at 25°C (77°F)
Water Solubility:	Ethanol	Soluble
Auto Ignition Temp:	Ethanol	685°F

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°F
Incompatible Materials:	This product is incompatible with strong acids or bases, oxidizers, alkali metals, and halogens.
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.

11. Toxicological Information

Name:	CAS:
Ethanol	64-17-5
LD50 Oral - Rat - 2,743 mg/kg	
Inhalation: No Data Available	
LD50 Dermal - Rabbit - > 2,000 mg/kg	
Skin Corrosion/Irritation:	Result: Mild skin irritation - 24 h
Serious Eye Damage/Eye Irritation:	Result: Irritating to eyes. - 24 h
Respiratory or Skin Sensitization:	No Data Available
Germ Cell Mutagenicity:	No Data Available
Carcinogenicity:	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA
Reproductive:	No Data Available
Additional Information:	Drying, cracking of the skin, Skin irritation Liver - Irregularities

12. Ecological Information

Name	CAS	Toxicity
Ethanol	64-17-5	Not Available
RO Water	7732-18-5	Not Available

13. Disposal Considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transportation Information

Proper Shipping Name:	Ethanol
Hazard Class	3
Identification Number:	UN1170
Packing Group:	II
Label	Flammable
Ship:	UN1170 ETHANOL CLASS 3 PG II

15. Regulatory Information

Name	CAS
Ethanol	64-17-5
SARA 302/304	No Components Were Identified
SARA 313	No Components Were Identified
CERCLA	No Components Were Identified
SARA 311/312	Fire Hazard, Chronic Health Hazard
PROP 65	No Components Were Identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	

16. Other Information, Including Date of Preparation or Last Revision

SDS Date:

3/1/2020

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