

1. IDENTIFICATION

IDENTIFIER (AS LABELED): Ethyl Alcohol, 32oz (950mL)
RECOMMENDED USE/RESTRICTION: Disinfectant, solvent, additive
MANUFACTURER'S NAME: Belle Chemical
ADDRESS: Billings, MT 59106
EMERGENCY PHONE: (406) 672-5899
BUSINESS PHONE: 1-877-522-2233

Health	2
Fire	3
Reactivity	0

2. HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION: Flammable Liquids (2)
Eye Irritation (2A)
SIGNAL WORD: Danger
HAZARD STATEMENT(S): Highly flammable liquid and vapor. May accumulate electrostatic charge and ignite or explode.
Causes eye irritation.



SYMBOL(S):
PRECAUTIONARY STATEMENT(S):

Store locked up. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking, heat, hot surfaces, open flames, sparks. Ground/Bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Store in a cool, well-ventilated place. Keep container tightly closed. Avoid breathing fume, gas, mist, spray, vapors. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection, face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER, doctor/physician if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish. Dispose of content/container in accordance with local, regional, national, and/or international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENT(S)

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR					
			ACGIH		OSHA		NIOSH	
			TLV TWA	STEL	PEL	STEL	IDLH	REL
Ethyl Alcohol	64-17-5	95.0		1000ppm	1000ppm	1900ppm	NE	1000ppm

4. FIRST-AID MEASURES

INHALATION: Remove person to fresh air and keep comfortable for breathing. If unwell call POISON CONTROL and seek medical attention.
EYES: Immediately hold eyelids open and flush with a steady stream of water for 15-20 minutes and seek medical attention.
SKIN: Immediately wash affected area with soap and water, removing contaminated clothing. If irritation persists, seek medical attention.
INGESTION: Rinse mouth, **DO NOT INDUCE VOMITING** unless directed by a medical professional. Call POISON CONTROL; seek medical attention.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MATERIALS: Alcohol-resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

SPECIAL EQUIPMENT: Avoid use of water streams to prevent spreading of fire. Wear full protective clothing and SCBA.

SPECIFIC HAZARDS: When heated to decomposition, this product may emit toxic fumes/oxides, smoke and combustion products.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas/air mixture. Dilute/disperse combustible gas/vapor with water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills. Do not allow material to discharge into controlled waterways. Wear PPE according to Section 8.

7. HANDLING and STORAGE

SAFE HANDLING: Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Work under local

exhaust/ventilation. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over.

SAFE STORAGE: Store in cool, dry, well-ventilated area away from incompatible materials, sources of heat and ignition. Keep container tightly closed and locked up.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

ENGINEERING CONTROLS: Use with adequate ventilation

RESPIRATORY: NIOSH-approved respirator

EYE: Face shield and goggles

HAND: Hand protection made of compatible material

BODY: Appropriate for exposure or work environment

OTHER PROTECTIVE MEASURES: Eye wash fluid should be accessible in case of eye irritation due to exposure

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear Solution

ODOR: Alcohol

ODOR THRESHOLD: Not available

PH: 7.0

MELT/FREEZE POINT: -227°F (99%)

BOILING POINT/RANGE: 172.92°F (99%)

FLASH POINT: 55°F (99%)

EVAPORATION RATE: Not available

FLAMMABILITY: Not Established

UEL / LEL: 2.5%/13.5%

VAPOR PRESSURE: 0.57 hPa

VAPOR DENSITY: 1.6

RELATIVE DENSITY: 0.79

SOLUBILITY(IES): Water, complete

PARTITION COEFFICIENT: Not Established

AUTO-IGNITION: Not Established

DECOMPOSITION TEMP: Not Established

VISCOSITY: Not available

10. STABILITY AND REACTIVITY

REACTIVITY: Violent to explosive reaction with (strong) oxidizers. Prolonged storage/in large quantities: may form peroxides.

CHEMICAL STABILITY: Stable under normal conditions

CONDITIONS TO AVOID: Excessive heat, ignition sources, open flame

INCOMPATIBLE MATERIALS: Strong oxidizers

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Causes eye irritation.

NTP/IARC SUSPECTED CARCINOGEN: Isopropyl alcohol is a Group 3 Carcinogen according to IARC (Not classifiable as to its carcinogenicity to humans).

SYMPTOMS OF EXPOSURE: May cause drowsiness or dizziness, coughing, dry/sore throat, CNS depression, headache, narcosis, irritation of the eye tissue.

TOXICITY ESTIMATE(S): ORAL (RAT): > 10,470 mg/kg (ethanol)
INHALATION (RAT): > 124.7 mg/L (ethanol, 4hr)

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Not considered toxic.

PERSISTENCE AND DEGRADABILITY: Biodegradable in soil, anaerobic conditions and water.

BIOACCUMULATIVE POTENTIAL: Biodegradable.

MOBILITY IN SOIL: Not tested as a whole

OTHER ADVERSE EFFECTS: None

13. DISPOSAL CONSIDERATIONS

SAFE HANDLING AND DISPOSAL: Dispose of contents/container in accordance with licensed collector's sorting instructions. Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

14. TRANSPORTATION INFORMATION

UN NUMBER/SHIPPING NAME: UN 1170/Ethanol

TRANSPORT HAZARD CLASS(ES): 3, Flammable Liquids

DOT: UN 1170 Ethanol (Flammable Liquid)

PACKING GROUP: II

ENVIRONMENTAL HAZARDS: No

TRANSPORT IN BULK: Not regulated by ship type and pollution category

SPECIAL PRECAUTIONS: None.

15. REGULATORY INFORMATION

SARA 302: No requirements.

SARA 311/312: Acute, Fire

TSCA STATUS: All constituents.

CALIFORNIA PROPOSITION 65: No requirements.

STATE REGULATIONS: Ethanol: MA, NJ, PA

16. OTHER INFORMATION

The information and recommendations herein are taken from data contained in independent industry recognized references including NIOSH, OSHA, ANSI, and NFPA. No guarantee, express or implied, and no liability is assumed by Belle Chemical in conjunction with the use of this information.

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