

Safety Data Sheet

Ethyl Alcohol Denatured

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ethyl Alcohol Denatured

Synonyms/Generic Names: None

Product Number: 2130

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.
N4335 Temkin Rd.
Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30)
www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Hazard Not Otherwise Classified (HNOC): None

Signal Words: Danger

Pictograms



GHS Classification:

Flammable liquids	Category 2
Acute Toxicity: Oral	Category 3
Acute Toxicity: Skin	Category 3
Acute Toxicity: Inhalation	Category 3
Skin Corrosion/Irritation	Category 2
Serious Eye Damage / Eye Irritation	Category 2A
Specific Target Organ Toxicity	Category 1

GHS Label Elements, including precautionary statements:

Hazard Statements:

H225	Highly flammable liquid and vapor.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H319	Causes serious eye irritation
H315	Causes skin irritation
H370	Causes damages to organs

Precautionary Statements:

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/Bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician 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.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use dry chemical, carbon dioxide or alcohol resistant foam to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulations.

Potential Health Effects

Eyes	Causes serious eye irritation
Inhalation	Toxic if inhaled.
Skin	Toxic if contact with skin. Causes skin irritation.
Ingestion	Toxic if swallowed. Irritating to mouth, throat, and stomach

NFPA Ratings

Health	2
Flammability	3
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	2
Fire	3
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Ethyl Alcohol	85.8	64-17-5	200-578-6	C ₂ H ₅ OH	46.07 g/mol
Isopropyl Alcohol	9.0	67-63-0	200-661-7	C ₃ H ₈ O	60.10 g/mol
Methyl Alcohol	4.3	67-56-1	200-659-6	CH ₃ OH	32.04 g/mol
Methyl Isobutyl Ketone	0.9	108-10-1	203-550-1	C ₆ H ₁₂ O	100.16 g/mol

4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention.
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Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin	Flush with plenty of water for at least 15 minutes and wash using soap. Get medical attention.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Flammable liquid. Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Cool unopened containers with water.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Material can react violently with water (spattering and misting) and react with metals to produce flammable hydrogen gas.
Specific hazards arising from the chemical	Emits toxic fumes (carbon oxides) under fire conditions. Vapors can travel to a source of ignition and flash back. Containers may explode in a fire. Cool containers from a distance using water spray. SENSITIVE TO STATIC DISCHARGE. (See also Stability and Reactivity section)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Absorb spill with vermiculite or other noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Use with adequate ventilation and grounding. Wash thoroughly after using. Keep container closed when not in use. Keep away from sources of ignition. No smoking. Take measure to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Store in tightly closed, original containers in a cool, dry, well ventilated area. Store between 55-100°F for product stability. Do not store with strong oxidizing agents, strong acids, peroxides, aldehydes, halogens, ammonia, acid anhydrides or alkali metals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Ventilation and appropriate grounding of containers.

Component	Exposure Limits	Basis	Entity
Ethyl Alcohol	1000 ppm	REL	NIOSH

	1900 mg/m ³		
	1000 ppm 1900 mg/m ³	PEL	OSHA
	1000 ppm 1880 mg/m ³	STEL	ACGIH
	3300 ppm	IDLH	OSHA
Isopropyl Alcohol	200 ppm 492 mg/m ³	TLV	ACGIH
	400 ppm 984 mg/m ³	STEL	ACGIH
	400 ppm 980 mg/m ³	PEL	OSHA
	2000 ppm	IDLH	OSHA
	400 ppm 980 mg/m ³	REL	NIOSH
	500 ppm 1225 mg/m ³	STEL	NIOSH
Methyl Alcohol	200 ppm 262 mg/m ³	TLV	ACGIH
	250 ppm 328 mg/m ³	STEL	ACGIH
	200 ppm 260 mg/m ³	PEL	OSHA
	200 ppm 260 mg/m ³	REL	NIOSH
	250 ppm 325 mg/m ³	STEL	NIOSH
Methyl Isobutyl Ketone	50 ppm 205 mg/m ³	TLV	ACGIH
	75 ppm 307 mg/m ³	STEL	ACGIH
	100 ppm 410 mg/m ³	PEL	OSHA
	50 ppm 205 mg/m ³	REL	NIOSH
	75 ppm 300 mg/m ³	STEL	NIOSH

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles. Use face shield if splashing is likely to occur.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, colorless liquid.
Odor	Mild alcohol
Odor threshold (ppm)	5-10 recognition
pH	Neutral
Melting point/freezing point	Not Available
Initial boiling point and boiling range	78°C – 80°C (172°F - 176°F)
Flash point	14°C (57°F) (estimated)
Evaporation rate	Not Available
Flammability (solid, gas)	Flammable liquid.
Upper/lower flammability or explosive limit	Upper: 36.5% / Lower: 6.0% (Methanol)
Vapor pressure	5.7 - 5.9 @ 20°C
Vapor density	1.59 – 1.61 (Air = 1)
Specific gravity	0.7900 (water = 1)
Solubility (ies)	Completely soluble in water.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Keep away from heat, flame and sparks.
Incompatible Materials	Alkali metals, ammonia, oxidizing agents, peroxides.
Hazardous Decomposition Products	Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	Not Available

Carcinogenicity

IARC	No components in this product is listed as a probable, possible, or confirmed human carcinogen by IARC.
ACGIH	Ethyl Alcohol: A3 Confirmed Animal Carcinogen with unknown relevance to humans. Isopropyl Alcohol: A4 Not classified as a human carcinogen. Methyl Alcohol: Not Listed Methyl Isobutyl Ketone: Ethyl Alcohol: A3 Confirmed Animal Carcinogen with unknown relevance to humans. Isopropyl Alcohol: A4 Not classified as a human carcinogen.
NTP	No components in this product is listed as a probable, possible, or confirmed human carcinogen by NTP.
OSHA	No components in this product is listed as a probable, possible, or confirmed human carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Irritation, redness, itchiness.
Eyes	Irritation, redness, watering eyes, itchiness.

Respiratory	No Specific data
Ingestion	No specific data
Chronic Toxicity	Ingestion may cause blindness.
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Pre-and Post-implant mortality.
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Will not accumulate
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Product or Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary, before disposing of waste product or residue.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary, before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	UN1987, Alcohols, n.o.s., 3, pg II
TDG	UN1987, ALCOHOLS, N.O.S., (ETHANOL, METHANOL) 3, PG II
IMDG	UN1987, ALCOHOLS, N.O.S., (ETHANOL, METHANOL) 3, PG II
Marine Pollutant	No
IATA/ICAO	UN1987, Alcohols, n.o.s., (Ethanol, Methanol) 3, pg II

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Listed: Ethyl Alcohol, Methyl Alcohol, Methyl Isobutyl Ketone

Rhode Island: Hazardous Substance List	Listed: Ethyl Alcohol, Methyl Alcohol, Isopropyl Alcohol, Methyl Isobutyl Ketone
Massachusetts: Toxic or Hazardous Substance List, Right to Know	Listed: Ethyl Alcohol, Methyl Alcohol, Isopropyl Alcohol, Methyl Isobutyl Ketone
Pennsylvania: Hazardous Substance List	Listed: Ethyl Alcohol, Methyl Alcohol, Isopropyl Alcohol, Methyl Isobutyl Ketone
New Jersey: Right to Know Hazardous Substance List	Listed: Ethyl Alcohol, Methyl Alcohol, Isopropyl Alcohol, Methyl Isobutyl Ketone
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
SARA 312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
SARA 313	Listed: Methyl Alcohol, Isopropyl Alcohol (mfg-strong acid process), Methyl Isobutyl Ketone
WHMIS Canada	Class B2: Flammable and combustible material – Flammable liquid. Class D1B: Poisonous and infectious material – Immediate and serious effects – Toxic. Class D2A: Poisonous and infectious material – Other effects – Very toxic. Class D2B: Poisonous and infectious material – Other effects – Toxic.

16. OTHER INFORMATION

Revision	Date
Original	03/11/2013
Revision 1	02/04/2015
Revision 2	01/09/2017
Revision 3	09/27/2018
Revision 4	03/24/2020
Revision 5	04/27/2020
Revision 6	06/15/2020
Revision 7	07/14/2020
Revision 8	04/18/2022

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