

Safety Data Sheet

DENATURED ALCOHOL



Brand: **MAXTITE**

SECTION 1

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name 200 Proof Alcohol
Company Pacific Innovations LLC
Address 129 Seegers Ave
Elk Grove Village, IL 60007
Telephone (503) 455-8581
Emergency Contact (Infotrac) 1-800-535-5053

SECTION 2

HAZARDS IDENTIFICATION

OSHA/GHS Flammable Liquids Category 2
Skin irritation Category 2
Hazards Eye irritation Category 2B
Specific target organ toxicity - single exposure Category 3
Causes damage to organs - single exposure Category 1

LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H370 Causes damage to organs

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Precautionary Statements

Prevention 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.
P280 Wear protective gloves/ eye protection/ face protection.
P264 Wash skin thoroughly after handling.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271 Use only outdoors or in a well-ventilated area.

Response P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.

Storage P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

No.	Component	CAS-No.	Weight percent	OSHA		ACGIH	
				TWA	STEL	TWA	STEL
1	Ethyl Alcohol	64-17-5	85-100	1000 ppm	Not avail	1000 ppm	Not avail
2	Isopropyl Alcohol	67-63-0	1-15	400 ppm	Not avail	400 ppm	Not avail
3	Methanol	67-56-1	1-15	Not avail	Not avail	Not avail	Not avail

SECTION 4

FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes while holding eyelids open and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

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Ingestion If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5 | FIREFIGHTING MEASURES

Flash Point: (ethyl alcohol) 13°C (55.4°F)
Auto-ignition Temperature: (ethyl alcohol) 363°C (685.4°F)
Lower Explosion Limit: (ethyl alcohol) 3.3%
Upper Explosion Limit: (ethyl alcohol) 19.0%
Flammability Classification: Class 1B Flammable Liquid

Suitable extinguishing media Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.

Protective equipment and precautions for firefighters Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

Products of Combustion Upon decomposition this product may emit carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.

SECTION 6 | ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/ national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

SECTION 7 | HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition.

Storage/Transport pressure Ambient

Load/Unload temperature Ambient

SECTION 8 | EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines). Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Chemical resistant goggles must be worn, Face-shield.

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Skin Wear suitable protective clothing, gloves and eye/face protection.

Inhalation Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

Components Exposure Limit(s)

Acetone OSHA PEL (Permissible Exposure Limit) 1,000 ppm 2,400 mg/m³
ACGIH TLV (8-hour) 500 ppm
ACGIH STEL (Short Term Exposure Limit) 750 ppm

PEL= Permissible Exposure Limits

TWA= Time Weighted Average (8 hr.)

TLV= Threshold Limit Value

STEL= Short Term Exposure Limit (15 min.)

EL= Excursion Limit

WEEL= Workplace Environmental Exposure Level

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid;

Colour clear, colorless

Odour No data available

pH No data available

Vapor Density (Ethyl Alcohol) 1.6

Boiling Point (Ethyl Alcohol) 78.5°C

Vapor Pressure (Ethyl Alcohol) 57.3 hPa at 20°C

Melting Point (Ethyl Alcohol) -114.1 °C

Freezing Point (Ethyl Alcohol) No data available

Flash Point See Section 5

Flammability Properties See Section 5

Solubility (in water) Soluble

Specific Gravity (Ethyl Alcohol) 0.78-0.8

Evaporation Rate No data available

Octanol/Water partition coefficient (Kow) (Ethyl Alcohol) -0.32

Auto-ignition temperature (Ethyl Alcohol) 363°C

Decomposition temperature No data available

Viscosity No data available

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SECTION 10 | STABILITY AND REACTIVITY

Stability	This material is considered stable at ambient temperatures 70°F (21°C)
Condition to Avoid	Flames, sparks, electrostatic discharge, heat and other ignition sources
Incompatible Materials	This product reacts with strong acid, strong bases, and oxidizing agents.
Hazardous Decomposition	Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low-weight hydrocarbons.
Hazardous Reactions	This product will not undergo polymerization.

SECTION 11 | TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

Analysis LD50

Methanol (67-56-1)

Draize test, rabbit, eye	40 mg Moderate,
Draize test, rabbit, eye	100 mg/24H Moderate;
Draize test, rabbit, skin	20 mg/24H Moderate;
Inhalation, rat	LC50 64000 ppm/4H;
oral, mouse	LD50 = 7300 mg/kg
oral, rabbit	LD50 = 14200 mg/kg;
oral, rat	LD50 = 5628 mg/kg;
Skin, rabbit	LD50 = 15800 mg/kg

Ethyl Alcohol (64-17-5)

oral LD50 Rat 7060 mg/kg

Isopropyl Alcohol (67-63-0)

Inhalation LC50 Rat	72.6 mg/U4H
Oral LD50 Rat	4396 mg/kg
Dermal LD50 Rat	12800 mg/kg
Dermal LD50 Rabbit	12870 mg/kg

CHRONIC EFFECTS

Ethyl Alcohol (64-17-5)

Carcinogenic Effects A4 - Not classifiable for human or animal by ACGIH.

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Mutagenic Effects: Not Available.

Teratogenic Effects. Not Available Not Available.

Developmental Toxicity Ethyl alcohol is a developmental toxin when consumed during pregnancy

Target Organs: When consumed, ethyl alcohol can target the respiratory system, skin, eyes, CNS, liver, blood, and reproductive system. **Inhalation** May be harmful if inhaled. Causes respiratory tract irritation. **Ingestion** May be harmful if swallowed. **Skin** May be harmful if absorbed through skin. Causes skin irritation. **Eyes** Causes eye irritation.

Methanol (67-56-1)

Carcinogenic Effects: Not available

Mutagenic Effects: Not Available

Teratogenic Effects: Not Available

Developmental Toxicity: Not available

Target Organs: Eyes, CNS, skin, GI tract, and respiratory system

Inhalation Toxic if inhaled. May cause respiratory tract irritation.

Skin Toxic if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion Toxic if swallowed.

Isopropyl Alcohol (67-63-0)

Carcinogenicity: No known hazards

Mutagenicity: Not available.

Reproductive: Not available.

Developmental: Not available.

Target Organs. skin, eyes, CNS, and respiratory system. **Eye:** Contact with eyes may cause redness and pain. **Skin:** Contact with skin may cause dry skin. **Inhalation:** Inhalation of this material may cause: cough, dizziness, drowsiness, headache, sore throat, abdominal pain, labored breathing, nausea, vomiting, and unconsciousness. **Ingestion:** Ingestion of this material may cause: cough, dizziness, drowsiness, headache, sore throat, abdominal pain, labored breathing, nausea, vomiting, and unconsciousness.

SECTION 12 | ECOLOGICAL INFORMATION

Ecotoxicity. Ethyl Alcohol (64-17-5)

96 hour LC50 Oncorhynchus mykiss: 12,900 mg/L (flow-through) (30days Old)

96 hour LC50 Pimephales promelas 14.2 mg/L

5 min EC50 Photobacterium phosphoreum: 35,470 mg/L

30 min EC50 Photobacterium phosphoreum: 34,634 mg/L

48 hour EC50 Daphnia magna: 9,268 mg/L

24 hour EC50 Daphnia magna: 10,800 mg/L

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Ecotoxicity: Methanol (67-56-1)

EC50 (48 h) : 13,200 mg/l Species : Rainbow trout (Oncorhynchus mykiss).

EC50 (48 h) : 16,000 mg/l Species . Bluegill sunfish (Lepomis macrochirus).

EC50 (48 h) : > 10,000 mg/l Species : Daphnia

SECTION 13 | DISPOSAL CONSIDERATIONS

Disposal methods Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

SECTION 14 | TRANSPORT INFORMATION

Proper Shipping Name Alcohols, n.o.s. (contains methanol)

Hazard Class 3

Identification No UN1987

Packing Group II

Label Flammable Liquid

SECTION 15 | REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

All chemical substances in this product are either on the TSCA Active Inventory, or in compliance with the inventory.

SARA 302 Status

Components

Cas-No.

Weight percent

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

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SARA 313 Chemical

Components

Methanol

SARA 311/312 Hazard The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: fire, Acute (Immediate) Health Hazard, Chronic (Delayed) Health Hazard

SECTION 16 | OTHER INFORMATION

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