

MATERIAL SAFETY DATA SHEET

Product: **Ethanol, Denatured**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: Ethanol, 190 Proof, Denatured

Product Code: CH-64175A

Chemical Formula: Not applicable.

General or Generic ID: Aliphatic alcohol or glycol. (Solvent.)

Company

ArtChemicals.com

2250 Davis Street

San Leandro, CA 94577-2204

510-639-4670

Emergency Telephone Number:

1-800-451-8346

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS No.</u>	<u>Chemical Identity</u>	<u>Common Name</u>	<u>%</u>
64-17-5	Alcohol	Ethyl alcohol, 200 Proof	95
7732-18-5	N/A	Water	5

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye:

Hazardous in case of eye contact (irritant). Symptoms include stinging, tearing, redness and impairment of vision. The degree of injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment.

Skin:

Hazardous in case of skin contact (irritant/permeator). Symptoms may include redness, burning of skin, or, occasionally, blistering. The degree of injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment.

Ingestion:

Hazardous in case of ingestion. Inhalation of dust will produce irritation to gastro-intestinal tract.

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Inhalation:

Hazardous in case of inhalation. Breathing in any amounts may cause respiratory irritation, burning, sneezing and coughing.

Symptoms of Exposure:

Not available.

Development Information:

Classified Development toxin [PROVEN] [Ethyl alcohol 200 Proof]. Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE] [Ethyl alcohol 200 Proof]. The substance is toxic to blood, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS).

Cancer Information:

Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethyl alcohol 200 Proof]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Camphor (DL)]. Classified PROVEN by State of California Proposition 65 [Ethyl alcohol 200 Proof].

Primary Route(s) of Entry:

Inhalation, skin absorption, skin contact, and eye contact.

4. FIRST AID MEASURES

Inhalation:

If affected, promptly remove individual to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion:

Do NOT induce vomiting, unless directed by medical personnel. Seek medical attention. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Do not leave individual unattended. Loosen tight clothing such as collar, tie, belt or waistband.

Eyes:

Remove contact lenses if worn. Spread eyelids with fingers and flush eye for minimum of 15 minutes with water; keep rotating the eyes to ensure complete flushing. Do not use an eye ointment. Seek medical attention.

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Skin:

Immediately remove contaminated clothing and thoroughly flush skin with plenty of water (15 minutes). Wash thoroughly with soap and water. Seek medical attention immediately. Launder clothing before reuse.

Note to Physicians:

Not available.

5. FIRE FIGHTING MEASURES

Flash Point: Flammable. Closed Cup: 18.5°C (65.3°F).

Explosive Limit: Not available.

Auto-ignition Temperature: The lowest known value is 363°C (685.4°F) (Ethyl alcohol 200 Proof).

Hazardous Products of Combustion: Carbon oxides (CO,CO₂).

Extinguishing Media: Flammable liquid, soluble or dispersed in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use alcohol foam, water spray or fog.

SPECIAL FIRE-FIGHTING PROCEDURES: Containers should be grounded. CAUTION: MAY BURN WITH NEAR INVISIBLE FLAME Vapor may travel considerable distance to source of ignition and flash back. May form explosive mixtures with air. Contact with Bromine pentafluoride is likely to cause fire or explosion. Ethanol ignites on contact with chromyl chloride. Ethanol ignites on contact with iodine heptafluoride gas. It ignites than explodes upon contact with nitrosyl perchlorate. Addition of platinum black catalyst caused ignition. (Ethyl alcohol 200 Proof).

NFPA CODES: Health = 2 Flammability = 3 Reactivity = 0

6. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled:

Small Spill:

Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of according to local and regional authority requirements.

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Large Spill:

Flammable liquid.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis, moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Be sure to use an approved/certified respirator or equivalent.

Skin Protection:

Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots or lab coat.

Eye Protection:

Chemical splash goggles in compliance with OSHA regulations are advised. Face shield. Ensure that eyewash stations and safety showers are proximal to the work-station location.

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Other Protective Clothing or Equipment:

Provide sufficient mechanical ventilation to maintain exposure below level of overexposure. Boots. Full suit. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling product.

Ethyl alcohol 200 Proof

TWA: 1000 (ppm) from ACGIH (TLV) [United States] [1999]

TWA: 1000 (ppm) from OSHA (PEL) [United States]

Consult local authorities for acceptable exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear/Colorless viscous liquid. (Alcohol odor).

Molecular Weight: Not available.

pH: Neutral.

Boiling Point: 79.58 °C (175.2 °F)

Melting Point: May start to solidify at -114.1 °C (-173.4 °F) based on data for: Ethyl alcohol 200 Proof.

Specific Gravity: 0.8 (Water=1)

Vapor Pressure: 5.7 kPa (@20 °C).

Evaporation Rate: Not available.

Solubility in Water: Easily soluble in hot water, cold water, methanol, diethyl ether.

10. STABILITY AND REACTIVITY

Incompatibility: Reactive with oxidizing agents, reducing agents, acids, alkalis.

Stability: Stable.

Hazardous Decomposition: N/A

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

LD50: 3632 mg/kg [Mouse]. (Calculated value for mixture).

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Acute Potential Health Effects:

Skin: causes skin irritation

Eyes: causes eye irritation

Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea, and alterations in gastric secretions. May affect behavior/central nervous system (central nervous system depression - amnesia, headache, muscular in coordination, excitation, mild euphoria, slurred speech, drowsiness, staggering gait, fatigue, changes in mood/personality, excessive talking, dizziness, ataxia, somnolence, coma/narcosis, hallucinations, distorted perceptions, general anesthetic), peripheral nervous system (spastic paralysis) vision (diplopia). Moderately toxic and narcotic in high concentrations. May also affect metabolism, blood, liver, respiration (dyspnea), and endocrine system. May affect respiratory tract, cardiovascular (cardiac arrhythmias, hypotension), and urinary systems.

Inhalation: May cause irritation of the respiratory tract and affect behavior/central nervous system with symptoms similar to ingestion.

Chronic Potential Health Effects:

Skin: Prolonged or repeated skin contact may cause dermatitis, an allergic reaction.

Ingestion: Prolonged or repeated ingestion will have similar effects as acute ingestion. It may also affect the brain. (Ethyl alcohol 200 Proof).

12. ECOLOGICAL INFORMATION

Not available.

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The product itself and its products of degradation are not toxic.

13. DISPOSAL CONSIDERATION

Waste Disposal Method:

Dispose of in accordance with all applicable local, state and federal regulations.

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14. DOT SHIPPING NAME & IDENTIFICATION:

Ethanol (Ethyl alcohol 200 Proof). Class 3. Flammable liquid. UNNA: 117,0 PG:II

15. OTHER INFORMATION

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 information is current, applicable, and suitable to their circumstances.