


**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Pure Denatured Ethanol (200 Proof), 3-C  
**SYNONYMS:** SDA, (200 Proof), Formula No. 3-C  
**CATALOG CODES:** V3C  
**MANUFACTURER:** Volu-Sol  
**ADDRESS:** 5095 West 2100 South  
 Salt Lake City, UT 84120  
**EMERGENCY PHONE:** (800) 535-5053  
**OTHER CALLS:** (801) 974-9474  
**FAX:** (801) 974-9553  
**CHEMICAL FAMILY:** -  
**CHEMICAL FORMULA:** -  
**PREPARED BY:** Volu-Sol

**RECOMMENDED USE:** As a solvent in the manufacture of: cleaning solutions, cosmetics for external use, disinfectants, fungicides, insecticides, perfume materials and fixatives, pharmaceutical products for external use.

**RESTRICTIONS ON USE:** Refer to the alcohol control authority in country in which the product is to be used – Canada Revenue Agency (Excise) in Canada, US Tax and Trade Bureau in US, etc.

**SECTION 2: HAZARD(S) IDENTIFICATION**

**EMERGENCY OVERVIEW:**  
**GHS Classification:** Flammable Liquids (Category 2)  
 Eye irritation (Category 2A)  
**GHS LABEL ELEMENTS:**  
**Pictogram:**   
**Signal Word:** Danger  
**Hazard Statement(s):**  
 H225 Highly flammable liquid and vapour  
 H319 Causes serious eye irritation  
**Precautionary Statement(s):**  
 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  
 P273 Avoid release to the environment  
 P280 Wear protective gloves/ eye protection/ face protection  
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention  
 P337+P313 If eye irritation persists: Get medical attention  
 P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction  
 P403+P235 Store in a well-ventilated place. Keep cool  
 P501 Dispose of contents/container to an approved waste disposal plant  
**OTHER HAZARDS:** -  
**HMIS Classification:**  
**Health hazard:** 2  
**Chronic health hazard:** -  
**Flammability:** 3  
**Physical hazards:** 0  
**NFPA Rating:**  
**Health hazard:** 2  
**Fire:** 3  
**Reactivity Hazard:** 0

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	CAS NO. EC-NO. Index-NO.
Ethanol (95.22%)	64-17-5 200-578-6 603-002-00-5
Isopropyl Alcohol (4.78%)	67-63-0 200-661-7 603-117-00-0

**SECTION 4: FIRST AID MEASURES**

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician

**INGESTION:** If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

**SKIN:** Wash off with soap and plenty of water. Consult a physician

**EYE:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If irritation occurs, seek medical attention

**SECTION 5: FIRE-FIGHTING MEASURES**

**FLAMMABLE LIMITS IN AIR:** **Percentage by Volume**  
 Upper: -%  
 Lower: -%

**FLASH POINT:** 13°C (57°F) – closed cup

**AUTOIGNITION TEMPERATURE:** -

**EXTINGUISHING MEDIA:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**FIRE FIGHTING PROCEDURES:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode

**FIRE AND EXPLOSION HAZARDS:** Use water spray to cool unopened containers

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**ACCIDENTAL RELEASE MEASURES:** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

**SECTION 7: HANDLING AND STORAGE**

**HANDLING AND STORAGE:** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage

**INCOMPATIBILITIES:** -

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMITS:** Reported in a time-weighted average (TWA)

Component	CAS-No.	Reference	OSHA		ACGIH	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethanol	64-17-5		1,000	1,900	1,000	1,900
			PEL	PEL	TLV	TLV
Isopropyl Alcohol	67-63-0		400	980	400	
			PEL	PEL	TLV	

**VENTILATION SYSTEM:** Local and/or general exhaust is recommended to keep exposure below limits. Local exhaust ventilation is preferred for control of the emissions at its source, preventing dispersion into the general work area. Please refer to the ACGIH document, *Industrial Ventilation: A Manual of Recommended Practices*, for details

**PERSONAL RESPIRATORS:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Prevent further leakage or spillage if safe to do so. Do not let product enter drains

**SKIN PROTECTION:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

**EYE PROTECTION:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** liquid  
**ODOR:** Typical ethanol/ lower alcohol odor  
**SOLUBILITY:** -  
**pH:** -  
**BOILING POINT:** -  
**MELTING POINT:** -  
**VAPOR PRESSURE:** -  
**SPECIFIC GRAVITY:** -  
**MOLECULAR WEIGHT:** -  
**DENSITY:** -  
**VISCOSITY:** -  
**REFRACTIVE INDEX:** -

#### SECTION 10: STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable under recommended conditions of use and storage  
**CONDITIONS TO AVOID:** Heat, flames, ignition sources  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** No data available

#### SECTION 11: TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:**  
**Acute Toxicity:** No data available  
**Skin/Eye Irritation:** No data available  
**Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP or OSHA  
**ROUTES OF ENTRY:** Inhalation/Ingestion/Skin

#### SECTION 12: ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:**  
**Toxicity:** No data available  
**Persistence and degradability:** No data available  
**Mobility in soil:** No data available  
**PBT/vPvB Results:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product

#### SECTION 14: TRANSPORT INFORMATION

US DOT	IATA	IMDG/IMO
Shipping Name: Alcohols, n.o.s. (Ethanol, Isopropanol)	Shipping Name: Alcohols, n.o.s. (Ethanol, Isopropanol)	Shipping Name: Alcohols, n.o.s. (Ethanol, Isopropanol)
Hazard Class: 3	Hazard Class: 3	Hazard Class: 3
UN Number: 1987	UN Number: 1987	UN Number: 1987
Packing Group: II	Packing Group: II	Packing Group: II

#### SECTION 15: REGULATORY INFORMATION

<b>SARA 302</b>	-
<b>SARA 313</b>	67-63-0
<b>SARA 311/312 Hazards</b>	Fire hazard, Acute Health Hazard, Chronic Health Hazard
<b>State</b>	Right to know lists: MA: 64-17-5, 67-63-0 PA: 64-17-5, 67-63-0 NJ: 64-17-5, 67-63-0 California Prop. 65 Components:

#### SECTION 16: OTHER INFORMATION

**Disclaimer:** The information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.