

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: ENTEAS1 Ethyl Alcohol 80%
Product code	: ENTEAS1
1.2. Recommended use and restrictions	s on use
Use of the substance/mixture	: Laboratory chemical
1.3. Supplier	
SIRCHIE	
100 Hunter Place	
Youngsville, NC 27596 - USA T 919-554-2244; 800-356-7311 - F 919-554-226	66: 800-899-8181
http://www.sirchie.com	
1.4. Emergency telephone number	
Emergency number	: 1.800.424.9300 (USA) +1-703-527-3887 (INTL)
	CHEMTREC: 1.800.424.9300
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or r	nixture
GHS US classification	
Flammable liquids H225	Highly flammable liquid and vapour
Category 2	
Full text of H statements : see section 16	
2.2. GHS Label elements, including pre	cautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
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Signal word (CHS US)	
Signal word (GHS US) Hazard statements (GHS US)	: Danger : H225 - Highly flammable liquid and vapour
Precautionary statements (GHS US)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
Frecautionary statements (Gris 03)	. F210 - Reep away non near, not sunaces, sparks, open names and other ignition sources. No
	smoking.
	P233 - Keep container tightly closed.
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Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/Information	<ul> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground/Bond container and receiving equipment.</li> <li>P241 - Use explosion-proof electrical/ventilating/lighting equipment.</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P370+P378 - In case of fire: Use media other than water to extinguish.</li> <li>P403 + P235 - Store in a well-ventilated place. Keep cool.</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> <li>in classification</li> <li>: None under normal conditions.</li> </ul>

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3.2. Mixtures			
Name	Product identifier	%	GHS US classification
ethanol	(CAS-No.) 64-17-5	80	Flam. Liq. 2, H225
AQUA	(CAS-No.) 7732-18-5	20	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measure	es
First-aid measures general	<ul> <li>Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).</li> </ul>
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and	effects (acute and delayed)
Potential Adverse human health effects and symptoms	Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Immediate medical attention an	nd special treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measu	res
5.1. Suitable (and unsuitable) exting	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Specific hazards arising from the	he chemical
Reactivity	: No reactivity hazard other than the effects described in sub-sections below.
	and precautions for fire-fighters
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release r	neasures
6.1. Personal precautions, protectiv	ve equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	. Equip closely around the proper protection
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for conta	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and pers	sonal protection.
SECTION 7: Handling and storage	ge
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

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7.2.	Conditions for safe storage, includ	ing any incompatibilities
Storage	conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incomp	atible products	: Strong bases. Strong acids.
Incomp	atible materials	: Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

ethanol (64-17-5)		
ACGIH	ACGIH STEL (ppm)	1000 ppm
AQUA (7732-18-5)		
Not applicable		

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure.

### Hand protection:

Wear protective gloves.

### Eye protection:

Chemical goggles or safety glasses

### Respiratory protection:

Wear appropriate mask

### Other information:

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Colorless
Odor	: Alcohol odour
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

# ENTEAS1 Ethyl Alcohol 80% Safety Data Sheet

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: No data available
: No data available
reactivity
ffects described in sub-sections below.
g and storage conditions (see section 7).
reactions
ffects described in sub-sections below.
v temperatures. Open flame. Sparks.
9

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

11.1. Information on toxicological effects	
	: Not classified
Acute toxicity (oral)	
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 15800 mg/kg body weight (Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
ethanol (64-17-5)	
Additional information	Ethyl alcohol (200 Proof) has been shown to cause cancer in Human and Animals when ingested in volume over time. There is no link to cancer in limited exposure scenarios.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

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### **SECTION 12: Ecological information**

# 12.1. Toxicity ethanol (64-17-5) LC50 fish 1 15300 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)

### 12.2. Persistence and degradability

ENTEAS1 Ethyl Alcohol 80%	
Persistence and degradability	Not established.
ethanol (64-17-5)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.7 g O <sub>2</sub> /g substance
ThOD	2.1 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.43

### 12.3. Bioaccumulative potential

ENTEAS1 Ethyl Alcohol 80%	
Bioaccumulative potential Not established.	
ethanol (64-17-5)	
BCF fish 1	1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)
Log Pow	-0.31 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil

ethanol (64-17-5)	
Surface tension	22.31 mN/m (20 °C, 100 %)
Log Koc	0.2 (log Koc, Experimental value)
Ecology - soil	Highly mobile in soil.

### 12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.		
Ecology - waste materials	: Avoid release to the environment.	

### **SECTION 14: Transport information**

Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1170 Ethanol, 3, II
UN-No.(DOT)	: UN1170
Proper Shipping Name (DOT)	: Ethanol
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 3 - Flammable liquid



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DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	<ul> <li>24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III.</li> <li>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 4b;150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	
Transport document description (IMDG)	: UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II
UN-No. (IMDG)	: 1170
Proper Shipping Name (IMDG)	: ETHANOL (ETHYL ALCOHOL)
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG)	: 1L
Air transport	
Transport document description (IATA)	: UN 1170 Ethanol, 3, II
UN-No. (IATA)	: 1170
Proper Shipping Name (IATA)	: Ethanol
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger
SECTION 15: Regulatory information	ů
15.1. US Federal regulations	

ENTEAS1 Ethyl Alcohol 80% Subject to reporting requirements of United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

CANADA

No additional information available

### **EU-Regulations**

No additional information available

### **National regulations**

### ENTEAS1 Ethyl Alcohol 80%

Listed on IARC (International Agency for Research on Cancer)

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15.3. US State regulations			
ENTEAS1 Ethyl Alcohol 80%			
U.S California - Proposition 65 - Carcinogens List	Yes		
U.S California - Proposition 65 - Developmental Toxicity	No		
U.S California - Proposition 65 - Reproductive Toxicity - Female	No		
U.S California - Proposition 65 - Reproductive Toxicity - Male	No		

### **SECTION 16: Other information**

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<b>o</b>	
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Training advice	Normal use of this product shall imply use in accordance with the instructions on the packaging. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.
Other information	: This Safety Data Sheet has been established in accordance with the applicable European Union legislation.
Full text of H-phrases:	
H225	Highly flammable liquid and vapour
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.
NFPA reactivity	: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.
Hazard Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal protection	: G G - Safety glasses, Gloves, Vapor respirator

### SDS US (GHS HazCom 2012)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.