

| 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<br>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)  |   |
| ······································  |   |
|   |   |
|   |   |
| Signal word (CHS US)  |   |
| Signal word (GHS US)<br>Hazard statements (GHS US)  | : Danger<br>: 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.   |
|   | P233 - Keep container tightly closed.<br>P240 - Ground/Bond container and receiving equipment.  |
|   | P233 - Keep container tightly closed.<br>P240 - Ground/Bond container and receiving equipment.<br>P241 - Use explosion-proof electrical/ventilating/lighting equipment.   |
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| <ul> <li>2.3. Other hazards which do not result</li> <li>Other hazards not contributing to the</li> </ul>   | <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> </ul>   |
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| Other hazards not contributing to the classification<br><b>2.4. Unknown acute toxicity (GHS US)</b><br>Not applicable                                   | <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 <ul> <li>None under normal conditions.</li> </ul> </li> </ul> |
| Other hazards not contributing to the<br>classification<br>2.4. Unknown acute toxicity (GHS US)<br>Not applicable<br>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>           |

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 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<br/>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<br>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<br>smoking and when leaving work. Provide good ventilation in process area to prevent formation<br>of vapor. |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 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

ch 26, 2012 / Pulos .... . ..

| : 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.   |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **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  |
|                                    |   |



### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 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)

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

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

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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| Data sources            | REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE<br>COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and<br>mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending<br>Regulation (EC) No 1907/2006.  |
| Training advice         | Normal use of this product shall imply use in accordance with the instructions on the packaging.<br>Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open<br>flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid<br>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<br>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<br>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<br>temperatures and pressures. Materials may react non-violently with water or undergo<br>hazardous polymerization in the absence of inhibitors.   |
| Personal protection     | : G<br>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.