

---

## SAFETY DATA SHEET

### 1. Identification of Product and Company

#### 1.1 Product identification

**Product code:** AE04000 (sample kit), AE04001, AE04002

**Product name:** EmerTher Ni-NTA (His-tag Affinity) Magnetic Beads

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

#### 1.3 Company identification

Company:

AvanBio Inc.  
239 New Road, Suite A-107  
Parsippany, NJ 07054  
U.S.A

Telephone:

+1 (800) 278-9865

Fax:

+1 (855) 378-6845

Email:

[support@avanbio.com](mailto:support@avanbio.com)

#### 1.4 Emergency response:

Emergency phone:

+1 (800) 278-9865

The Products are mixtures which contain the hazardous substance – ethanol, at 20%. These mixtures have not been tested as a whole to determine their hazards; therefore, a SDS is provided for the **undiluted** hazardous ingredient of ethanol.

### 2. Hazard(s) Identification

#### GHS – Classification

**Flammable liquids (Category 3), H226**

Pictogram



Signal Word Warning

#### Hazard statement(s)

**H226 Flammable liquid and vapor.**

### 3. Composition/Information on Ingredients

#### Hazardous component

| Ingredient Name | Formula                         | CAS-No  | v/v % | OSHA Classification |
|-----------------|---------------------------------|---------|-------|---------------------|
| Ethanol         | C <sub>2</sub> H <sub>6</sub> O | 64-17-5 | 20%   | See Section 2.      |

### 4. First Aid Measures

#### General advice:

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor.

#### Skin contact:

Wash off with soap and plenty of water. If symptoms persist, call a physician.

#### Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

#### Ingestion:

Do not induce vomiting without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

#### Inhalation:

Move to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.

### 5. Fire Fighting Measures

#### Suitable extinguishing media:

Use water spray, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam or dry chemical.

#### Special protective equipment for firefighters:

Wear self-contained breathing apparatus and protective suit if necessary.

#### Special hazards arising from the substance:

Carbon oxides

#### Further information:

Use water spray to cool unopened containers.

### 6. Accidental Release Measures

#### Personal precautions:

Use personal protective equipment. Avoid breathing mist, gas or vapors. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

#### Methods for containment and cleaning up:

Contain spillage and then collect with an electronically protected cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in

suitable, closed containers for disposal.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## **7. Handling and Storage**

### **Handling:**

Always wear recommended personal protective equipment. Avoid contact with skin and eyes. Wash hands thoroughly after handling. Do not breathe dust or fumes. Keep away from sources of ignition. Take measures to prevent the build-up of electrostatic charge.

### **Storage:**

Keep container tightly closed and keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Storage class: Flammable liquids.

## **8. Exposure Controls/Personal Protection**

### **8.1 Exposure limits**

Ingredient with limit values that require monitoring at the workplace

#### **For Ethanol:**

**ACGIH Threshold Limit Values:** 1,000 ppm TWA

**OSHA Occupational Exposure Limits for Air Contaminants:** 1,000 ppm TWA; 1,900 mg/m<sup>3</sup> TWA

**NIOSH Recommended Exposure Limits:** 1,000 ppm TWA; 1,900 mg/m<sup>3</sup> TWA

### **8.2 Engineering measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **8.3 Personal protective equipment**

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment.

#### **Eye/face protection:**

Wear tightly fitting safety goggles and face shield.

#### **Skin and body protection:**

Handle with gloves. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wear lightweight complete suit protective clothing.

#### **Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice.

### **8.4 Environmental exposure controls**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

---

## 9. Physical and Chemical Properties

**Appearance** Liquid, colorless

**Odor** Alcohol-like

**pH** No data available

**Initial Boiling Point/Range** No data available

**Melting point/range** No data available

**Flash point** 35 °C (95 °F)

**Evaporation rate** No data available

**Flammability (solid, gas)** No data available

**Upper/lower flammability or explosive limits** No data available

**Vapor pressure** No data available

**Vapor density** No data available

**Relative density** 0.98g/cm<sup>3</sup> at 20 °C (68 °F)

**Water solubility** No data available

**Partition coefficient: noctanol/water** No data available

**Auto-ignition temperature** No data available

**Decomposition temperature** No data available

**Viscosity** No data available

**Explosive properties** No data available

**Oxidizing properties** No data available

## 10. Stability and Reactivity

**Reactivity** No data available

**Stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** No data available

**Conditions to avoid** Heat, flames and sparks

**Incompatible materials** Oxidizing agents, Peroxides, Alkali metals

**Hazardous decomposition products** No data available

## 11. Toxicological Information

**Acute toxicity** No data available

**Skin corrosion/irritation** No data available

**Serious eye damage/eye irritation** No data available

**Respiratory or skin sensitization** No data available

**Germ cell mutagenicity** No data available

### Carcinogenic effects

**IARC:** 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:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a

---

carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity** No data available

**Sensitization** No data available

**Target Organ Effects** No data available

## 12. Ecological Information

**Ecotoxicity effects** No data available.

**Mobility** No data available.

**Persistence and degradability** No data available.

**Bioaccumulation** No data available

**Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects** No data available

## 13. Disposal Considerations

Offer surplus and non-recyclable solutions to a licensed disposal company. This highly flammable material may be burned in a chemical incinerator equipped with an afterburner and scrubber with extra care in ignition. Dispose of in accordance with federal, state and local regulations.

## 14. Transport Information

**NA number: 1993 Class: NONE Packing group: III**

**Proper shipping name:** Combustible liquid, n.o.s. (Ethanol)

Reportable Quantity (RQ):

**Poison Inhalation Hazard:** No

Not dangerous goods

## 15. Regulatory Information

### SARA 302 Components

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

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Fire hazard, acute health hazard, chronic health hazardous

## 16. Other information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Date of Preparation: February 4, 2016



---

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE.