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## SAFETY DATA SHEET

### 1. Identification of Product and Company

#### 1.1 Product identification

**Product code:** AE01000 (sample kit), AE01001, AE01002

**Product name:** EmerTher Streptavidin 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 – ProClin 300, at 0.03%. These mixtures have not been tested as a whole to determine their hazards; therefore, a SDS is provided for the **undiluted** hazardous ingredient of ProClin 300.

### 2. Hazard(s) Identification

**For 100% ProClin 300:**

**GHS – Classification**

**Acute toxicity, Oral (Category 4), H302**

**Skin corrosion (Category 1B), H314**

**Serious eye damage (Category 1), H318**

**Respiratory sensitization (Category 1), H334**

**Skin sensitization (Category 1), H317**

**Acute aquatic toxicity (Category 1), H400**

**Chronic aquatic toxicity (Category 1), H410**

**Signal Word** Danger

**Hazard statement(s)**

- H302 Harmful if swallowed.**
- H314 Causes severe skin burns and eye damage.**
- H317 May cause an allergic skin reaction.**
- H318 Causes serious eye damage.**
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.**
- H410 Very toxic to aquatic life with long lasting effects.**

### 3. Composition/Information on Ingredients

#### Hazardous component

Ingredient Name	Chemical	CAS-No	Weight %	OSHA Classification
ProClin 300	Mixture of 5-Chloro-2-Methyl-4-Isothiazolin-3-One and 2-Methyl-4-Isothiazolin-3-One (3:1)	55965-84-9	0.03%	See Section 2.

### 4. First Aid Measures

#### For 100% ProClin 300:

##### General advice:

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

##### Skin contact:

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms arise, 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

#### For 100% ProClin 300:

##### 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.

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**Special hazards arising from the substance:**

Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas

**6. Accidental Release Measures****For 100% ProClin 300:****Personal precautions:**

Use personal protective equipment. Avoid breathing dust or vapors. Ensure adequate ventilation.

**Methods for containment and cleaning up:**

Soak up with inert absorbent material without creating dust and dispose as hazardous waste. 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****For 100% ProClin 300:****Handling:**

Always wear recommended personal protective equipment. Avoid contact with skin and eyes. Wash hands thoroughly after handling. Do not breathe dust or fumes.

**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: combustible, corrosive hazardous materials.

**8. Exposure Controls/Personal Protection****For 100% ProClin 300:****8.1 Exposure limits**

Contains no substances with occupational exposure limit values.

**8.2 Engineering measures**

Ensure adequate ventilation, especially in confined areas. 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.

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**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****For 100% ProClin 300**

**Appearance** Liquid

**Odor** No data available

**pH** 4.1 at 100g/l

**Initial Boiling Point/Range** 189 °C (372 °F)

**Melting point/range** -40 °C (-40 °F)

**Flash point** 118 °C (244 °F) – closed cup

**Evaporation rate** No data available

**Autoignition temperature** 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** 1.03 g/cm<sup>3</sup>

**Water solubility** soluble

**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****For 100% ProClin 300:**

**Reactivity** No data available

**Stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** No data available

**Materials to avoid** No dangerous reaction known under conditions of normal use.

**Incompatible materials** Strong oxidizing agents, Reducing agents, Amines, Mercaptans

**Hazardous decomposition products** None under normal use.

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## 11. Toxicological Information

### For 100% ProClin 300:

#### Acute toxicity

Ingredient Name	LD50 (oral, rat)	LD50 (dermal, rabbit)
ProClin 300	862 mg/kg	2800 mg/kg

#### Principal Routes of Exposure/ Potential Health effects

**Eyes (Rabbit)** Corrosive to eyes

**Skin (Rabbit)** Corrosive

**Inhalation** No data available.

**Ingestion** May be harmful if swallowed.

#### 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.

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

**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.

**Mutagenic effects** No data available

**Reproductive toxicity** No data available

**Sensitization** No data available

**Target Organ Effects** No data available

## 12. Ecological Information

### For 100% ProClin 300:

**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** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

## 13. Disposal Considerations

### For 100% ProClin 300:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a

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combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of in accordance with federal, state and local regulations.

#### **14. Transport Information**

**For 100% ProClin 300:**

**UN number:** 3265 **Class:** 8 **Packing group:** II

**Proper shipping name:** Corrosive liquid, acidic, organic, n.o.s. (Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1))

Reportable Quantity (RQ):

**Poison Inhalation Hazard:** No

#### **15. Regulatory Information**

**For 100% ProClin 300:**

**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.

#### **16. Other information**

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

Date of Preparation: Dec. 16, 2015

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 WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.