



SAFETY DATA SHEET

1. Identification of Product and Company

1.1 Product identification

Product code: AE02000 (sample kit), AE02001, AE02002

Product name: EmerTher Protein A 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

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 (CO₂), 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, Nitrogen oxides (NO_x), 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.

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/cm³

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.

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

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.