Section 1: Product and Company Identification
Product Name: Aurion Gold Tracers
Date prepared: 12 March 2006
MSDS number: TRA-02

Section 2: Composition / Ingredients
This product contains: Bovine Serum Albumin and derivatives conjugated with colloidal gold particles in solution.
Ingredients: Stabilized colloidal gold in a buffer solution containing sodium phosphate and sodium chloride. Preservative: sodium azide 0.06% by weight.

Section 3: Hazards Identification
Emergency Overview: Sodium azide reacts with lead and copper plumbing forming highly explosive metal azides.
Routes of Entry: Inhalation, ingestion and skin absorption.
Effects of Overexposure: Colloidal Gold Compounds may cause contact dermatitis.

Section 4: First Aid Measures
Eye Contact: Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
Skin Contact: Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
Ingestion: Wash out mouth with water, provided person is conscious. Call a physician.
Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

Section 5: Fire Fighting Measures
Explosion Hazards: Azide reacts with metals such as lead, copper, mercury, silver, gold and halides to form explosive compounds.
Flash Point: Not flammable
Flammable Limits: Lower: N/A, Upper: N/A
Autoignition Temperature: N/A
Extinguishing Methods: Use extinguishing media appropriate to surrounding fire conditions.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): May emit toxic fumes under heat exposure

Section 6: Accidental Release Measures
Evacuation procedures and Safety: Wear rubber gloves.
Cleanup and Disposal of Spill: Absorb on sand or vermiculite and place in closed containers for disposal. Wash spill site after material pickup is complete with copious amounts of water.
Waste Disposal Methods: According to local guidelines for dilute protein solutions containing 0.05% Sodium Azide. Follow all local, state and Federal laws.

N/A = Not applicable

Section 7: Handling and Storage
Minimum / Maximum Storage Temperatures: 0 - 37°C (273 - 310K)
Handling: Do not breathe vapors and mists. Do not get on skin or in eyes. Do not ingest. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed. Avoid freezing.
Storage: Store in a refrigerator

Section 8: Exposure Controls / Personal Protection
Respiratory Protection: N/A
Ventilation: N/A
Protective Gloves: Compatible chemical-resistant gloves.
Eye Protection: Chemical safety goggles.

Section 9: Physical and Chemical Properties
Appearance: Liquid

Section 10: Stability and Reactivity
Stability: Stable

Section 11: Toxicological Information
The toxicological properties have not been thoroughly investigated.
Sodium Azide: 0.05% by weight
Oral rat LD50: 27 mg/kg
Investigated as tumorigen and mutagen. No activity known.

Section 12: Ecological Information
Environmental Fate: When released into the soil, included proteins are expected to biodegrade. Colloidal gold particles will not degrade, chemically inactive.
Environmental Toxicity: No toxicity anticipated for proteins. Observe MSDS for Sodium Azide.

Section 13: Disposal Considerations
Dispose of unused contents in accordance with federal, state and local regulations for the disposal of solutions containing 0.05% Sodium Azide.

Section 14: Transportation Information
This substance is considered to be non-hazardous for transport.

Section 15: Regulatory Information
Workplace classification: This product is considered non-hazardous.
TSCA status: Exempt from TSCA.

Section 16: Other Information
Laboratory reagent. For research use only. Not for diagnostic or therapeutic use.
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