

EMS CATALOG NO: 25440-25493
EMS PRODUCT: Gold Tracers
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MATERIAL SAFETY DATA SHEET

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FOR PRODUCT AND SALES INFORMATION

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PRODUCT IDENTIFICATION

PRODUCT NAME: Gold Tracers

COMPOSITION AND INFORMATION ON 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 0.05% by weight.

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.

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 immediately. Call a physician.

INGESTION: Wash out mouth with water, provided person is conscious. Do not induce vomiting. Call a physician.

INHALATION: Move to fresh air. If breathing becomes difficult, call a physician.

FIRE AND EXPLOSION DATA

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: Not applicable, Upper: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

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.

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. Observe all local, state and Federal laws.

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

EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Not applicable

VENTILATION: Not applicable

PROTECTIVE GLOVES: Compatible chemical-resistant gloves.

EYE PROTECTION: Chemical safety goggles.

EXPOSURE LIMITS: Not available.

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE AND APPEARANCE: Liquid

STABILITY AND REACTIVITY DATA

STABILITY: The product is stable.

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.

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.

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of unused contents in accordance with federal, state and local requirements for the disposal of alkaline solutions containing 0.05% Sodium Azide.

TRANSPORT INFORMATION

DOT CLASSIFICATION: Not a DOT controlled material (United States).

IDENTIFICATION: Not applicable.

SPECIAL PROVISIONS FOR TRANSPORT: Not applicable

OTHER REGULATORY INFORMATION

WORKPLACE CLASSIFICATION: This product is considered non-hazardous.

TSCA STATUS: Exempt from TSCA.

OTHER: Laboratory reagent. For research use only. Not for diagnostic or therapeutic use.