



## MATERIAL SAFETY DATA SHEET

TechneScan MAG3®  
Technetium Tc99m Mertiatide

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** TechneScan MAG3®  
**Synonyms:** Tc99m MAG3; Tc99m Mertiatide; (N-[N-[N-(Mercaptoacetyl)glycyl]glycyl]-glycine benzoate (ester))  
**Manufacturer:** Mallinckrodt, Inc.  
2703 Wagner Place  
Maryland Heights, MO 63043

**Revision Date:** April 7, 2011  
**Information Telephone Number:** (888) 744-1414  
**Emergency Telephone Number:** 314-654-7860  
**CHEMTREC:** 1-800-424-9300  
**CANUTEC:** 613-996-6666

### SECTION 2. COMPOSITION. INFORMATION ON INGREDIENTS

#### Chemical Ingredients:

<u>Component</u>	<u>CAS #</u>	<u>Wt %</u>
Betiatide	103725-47-9	1.6 %
Stannous Chloride	7772-99-8	0.2 %
Sodium Tartrate	868-18-8	65.4 %
Lactose	63-42-3	32.7 %
<u>Reconstituted Kit</u>		
Technetium-99m	23288-60-0	

### SECTION 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Read Package Insert prior to use! Promptly remove any contamination from skin, eyes, or clothing. Avoid all unnecessary exposure to the chemical substance.

#### POTENTIAL HEALTH EFFECTS

The hazardous ingredients found in TechneScan MAG3 are skin and eye irritants, but due to the small quantities present in each container, no adverse health effects are expected to occur from exposure.

#### **Inhalation:**

Not expected to be a health hazard.

#### **Ingestion:**

Not expected to be a health hazard.

#### **Skin Contact:**

Not expected to be a health hazard.

TechneScan MAG3®

**Eye Contact:**  
Not expected to be a health hazard.

**Chronic Exposure:**  
Not expected to be a chronic health hazard.

**Aggravation of Pre-existing Conditions:**  
No information found.

## SECTION 4. FIRST AID MEASURES

**Inhalation:**  
Not expected to require first aid measures.

**Skin Exposure:**  
Wash exposed area with soap and water. Get medical advice if irritation develops.

**Ingestion:**  
Not expected to require first aid measures.

**Eye Exposure:**  
Wash thoroughly with running water. Get medical advice if irritation develops.

## SECTION 5. FIRE FIGHTING MEASURES

**Fire:** Not considered to be a fire hazard.

**Explosion:** Not considered to be an explosion hazard.

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Special Instructions:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Collect non-radioactive spills and dispose of material as non-hazardous waste. **For TechneScan MAG3® Reconstituted with Sodium Pertechnetate Tc-99m:** If any loss or release of the radioactive contents occurs, notify your Radiation Safety Department and Mallinckrodt at (314) 654-7860. All cleanup operations should be performed according to the Standard Operating Procedures (SOPs) established for your facility and by the NRC or other applicable local, state or federal regulations.

## SECTION 7. HANDLING AND STORAGE

Store at controlled room temperature, 20-25°C (68-77°F) and protected from light until use. The reconstituted vial should be stored at room temperature (15-30°C). Discard after six (6) hours from the time of preparation. After reconstitution, handling time should be kept to a minimum and appropriate shielding should be used. Handling devices such as syringe shields and tongs should be used. Storage and disposal of product should be controlled in a manner which is in compliance with the appropriate regulations of the government agency authorized to license the use of this radionuclide

## SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**Airborne Exposure Limits:**

None established.

**Engineering Controls:**

Not expected to require any special ventilation.

**Respiratory Protection: (NIOSH Approved) :**

Not expected to require personal respirator usage.

**Skin Protection:**

Wear protective gloves and clean body-covering clothing.

**Eye/Face Protection:**

Safety glasses. Maintain eye wash fountain and quick-drench facilities in area.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Small, dry, white crystals clinging to inside of 10 mL glass vial.

**Odor:** Odorless.

**Solubility:** Soluble in water.

**Boiling Point:** ca. 100 °C (212°F) reconstituted.

**Melting Point:** ca. 0 °C (32°F) reconstituted.

## SECTION 10. STABILITY AND REACTIVITY

**Stability:** Light sensitive.

**Hazardous Decomposition Products:** When heated to decomposition, substance may emit oxides of carbon and corrosive fumes of hydrochloric acid.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** No Information found.

## SECTION 11. TOXICOLOGICAL INFORMATION

For detailed toxicological information on specific components, write to the address listed in Section 1 - Attn: Corporate Product Monitoring Department.

## SECTION 12. ECOLOGICAL INFORMATION

Because this product is intended for use by hospital or clinic patients, it is expected to be treated by wastewater treatment facilities with no adverse environmental impacts.

## SECTION 13. DISPOSAL CONSIDERATIONS

TechneScan MAG3® reconstituted with Sodium Pertechnetate Tc-99m is Radioactive Waste until the activity has decayed to non-detectable levels. Radioactive waste must be handled in accordance with procedures established by your Radiation Safety Officer, NRC and other applicable regulations.

If medical waste is involved, such as blood, blood products, or sharps, the waste must be handled as a Biohazard and disposed of accordingly.

If not radioactive or a biohazard, waste TechneScan MAG3® is considered non-hazardous. Consult local, state and federal regulations for proper disposal.

## SECTION 14. TRANSPORT INFORMATION

Not regulated as a Hazardous Material by the Department of Transportation.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantities:

Tc-99m = 100 Ci (3.7 E 12 Bq)

Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center at 800-424-8802.

### SARA Title III:

302 Extremely Hazardous Substances: None

311 / 312 Hazard Categories: None

313 Toxic substances subject to annual release reporting requirements: None

### RCRA Hazardous Waste Status:

Non-hazardous (See Section 13 for additional details)

### California Proposition 65 Warning:

When this kit is reconstituted with radioactive material, this product contains a substance known to the State of California to cause cancer.

**Australian Hazchem Code:** None allocated.

**Australian Poison Schedule:** None allocated.

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## SECTION 16. OTHER INFORMATION

**MSDS Status:** Revised in accordance with ANSI Guideline Z400.1-1998

**NFPA Ratings:** Health: 0 Flammability: 0 Reactivity: 0

**Product Use:** Diagnostic Imaging Agent.

**Revision Information:** Section 7

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