



MATERIAL SAFETY DATA SHEET

TechneScan® HDP
Technetium Tc99m Oxidronate

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: TechneScan® HDP
Synonyms: Tc99m HDP; Tc99m Oxidronate
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>
Stannous Chloride	7772-99-8	0.9 %
Gentisic Acid	490-79-9	2.4%
Oxidronate Sodium	None	9.2%
Sodium Chloride	7647-14-5	87.5%
<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 HDP 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.

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® HDP 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) both prior to and following reconstitution. Discard after eight (8) 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.

Skin Protection:
Wear protective gloves and clean body-covering clothing.

Respiratory Protection:
Not expected to require personal respirator usage.

Eye/Face Protection:
Safety glasses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Small, dry, white crystals clinging to inside of 6 mL glass vial.

Solubility: Soluble in water.

Odor: Odorless.

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

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

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

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: Regulatory Compliance Department.

SECTION 12. ECOLOGICAL INFORMATION

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

SECTION 13. DISPOSAL CONSIDERATIONS

TechneScan® HDP 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® HDP is considered non-hazardous. Consult local, state and federal regulations for proper disposal.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation): Not Regulated

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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Mallinckrodt Inc.
2703 Wagner Place, Maryland Heights, MO 63043