MSDS – DRAXIMAGE[®] MDP-25



MATERIAL SAFETY DATA SHEET

DRAXIMAGE[®] MDP - 25 Kit for the Preparation of Technetium Tc 99m Medronate Injection

Date Published: September 2009 Date Revised: July 2011 Revision No.: 1

S	ection 1. Product and Company Identification
Product Name:	DRAXIMAGE [®] MDP-25
Manufacturer:	Jubilant DraxImage Inc. A Jubilant Life Sciences Company 16751 TransCanada Highway Kirkland, Quebec, Canada, H9H 4J4 Phone: +1-514-630-7080 / 1-888-633-5343 Fax: +1-514-694-9295 / 1-866-431-4288 Hours of operation: 8am-5pm Eastern Time Web site: <u>www.draximage.com</u>
Synonyms:	Tc-99m Medronate; Tc-99m MDP
Category:	Diagnostic Medical Agent
Product Number:	500661

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Section 2. 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 DRAXIMAGE[®] MDP-25 are skin and eye irritants, but due to the small quantities present in the container, no adverse health effects are expected to occur from exposure.

Eye Contact: Not expected to be a health hazard.

Skin Contact: Not expected to be a health hazard.

Inhalation: Not expected to be a health hazard.

Ingestion: Not expected to be a health hazard.

Chronic Exposure: Not expected to be a health hazard.

Aggravation of Pre-existing Conditions: No information found.

CARCINOGENICITY

None of the components present in this material at concentrations equal to or greater than 0.1 % are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen

Section 3. Composition / Information on Ingredients				
Chemical Ingredients		CAS #	Wt %	
Medronic Acid	25 mg	1984-15-2	76 %	
p-Aminobenzoic Acid	5 mg	450-13-0	15 %	
Stannous Chloride Dihydrate	2.75 mg	10025-69-1	8 %	

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Section 4. First Aid Measures

Eye Exposure: Wash thoroughly with running water for at least 15 minutes. Get medical advice if irritation develops.

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

Inhalation: Not expected to require first aid measure; remove to fresh air, support breathing by usual methods if necessary.

Ingestion: Not expected to require first aid measure; call physician if necessary.

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 media 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 MDP-25 Reconstituted with Sodium Pertechnetate Tc-99m: If any loss or release of the radioactive contents occurs, notify your Radiation Safety Officer. All cleanup operations should be performed according to the Standard Operating Procedures (SOP's) established for your facility and by the CNSC, NRC, or other applicable local, provincial, state or federal regulations.

Refer to the Canadian Nuclear Safety Commission Radiation Safety Data Sheet for Tc-99m at <u>http://www.cnsc-ccsn.gc.ca/eng/pdfs/Tc-99m.pdf</u>

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Section 7. Handling and Storage

The product should be stored at 25 °C (77 °F); excursions permitted between 15 °C and 30 °C (59 °F and 86 °F) prior to reconstitution with Sodium Pertechnetate Tc-99m. After reconstitution, the shielded vial should be stored at 25 °C (77 °F) with excursions permitted between 15 °C and 30 °C (59 °F and 86 °F) and discarded after twelve (12) hours from the time of preparation. Handling devices such as syringe shields and tongs should be used. Storage and disposal of the reconstituted, <u>radioactive</u> product should be controlled in a manner that is in compliance with the appropriate regulations of the government agency authorised to license the use of this radionuclide.

Section 8. Exposure Controls / Personal Protection

Airborne Exposure Limits:

For Tin Compounds:

OSHA Permissible Exposure Limit (PEL) : 2 mg/m³ (TWA), as Sn

<u>ACGIH Threshold Limit Value (TLV) :</u> 2 mg/m^3 (TWA), as Sn

Engineering Controls: Not expected to require any special ventilation.

Respiratory Protection: Not expected to require personal respirator usage.

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

Eye/Face Protection: Safety glasses.

Section 9. Physical and Chemical Properties

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

Odour: Odourless.

Solubility: Soluble in water.

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

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

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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 Polymerisation: Will not occur.

Incompatibilities with other Materials: None reasonably foreseeable.

Section 11. Toxicological Information

For detailed toxicological information on specific components, write to the address listed in Section 1 – Attn: Regulatory Affairs 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

MDP-25 reconstituted with Sodium Pertechnetate Tc-99m is Radioactive Waste until the activity has decayed to nondetectable levels. Radioactive waste must be handled in accordance with procedures established by your Radiation Safety Officer, NRC, CNSC, 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, MDP-25 is considered non-hazardous. Consult local, provincial, state, or federal regulations for proper disposal.

Section 14. Transport Information

U.S. Department of Transportation Regulations (DOT): Not regulated in the non-radioactive form.

International Air Transport Association (IATA): This product does not meet the definition of dangerous goods, and is therefore exempt from IATA/ICAO regulations.

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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. 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. NFPA Ratings: Health: 0 Flammability: 0 Reactivity: 0

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

Product Use: Diagnostic imaging agent MSDS Status: Prepared September 15, 2009 Revision Information: Rev. 1, July 2011

This document pertains, in most part, to the non-radioactive, non-reconstituted, lyophilized product. Once reconstituted with radioactive ^{99m}Tc, the material falls under the regulation of the CNSC, NRC, or other local, provincial, state, or federal agencies. Only trained professionals in licensed facilities are permitted to handle the radioactive reconstituted product.

Refer to the Canadian Nuclear Safety Commission (CNSC) Radiation Safety Data Sheet (RSDS) for Tc-99m at http://www.cnsc-ccsn.gc.ca/eng/pdfs/Tc-99m.pdf

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