

## 1. Product and Company Identification

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<b>Material name</b>	TECHNESCAN® DMSA
<b>Version #</b>	01
<b>Revision date</b>	01-06-2010
<b>CAS #</b>	Mixture
<b>Synonym(s)</b>	TC99m Succimer
<b>Manufacturer</b>	Covidien (Mallinckrodt)
<b>Address</b>	675 McDonnell Blvd. Hazelwood MO 63042 US
<b>Customer Service</b>	888-744-1414
<b>24 Hour Emergency</b>	314-654-1600
<b>Chemtrec</b>	800-424-9300

## 2. Hazards Identification

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<b>Emergency overview</b>	CAUTION  May cause eye irritation.
<b>OSHA regulatory status</b>	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
<b>Potential health effects</b>	
<b>Routes of exposure</b>	Inhalation. Ingestion. Eye contact.
<b>Eyes</b>	Contact with eyes may cause irritation.
<b>Inhalation</b>	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
<b>Potential environmental effects</b>	May cause long-term adverse effects in the environment.

## 3. Composition / Information on Ingredients

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Components	CAS #	Percent
INOSITOL	87-89-8	90 - 100
DIMERCAPTOSUCCINIC ACID	304-55-2	2.5 - 10
STANNOUS CHLORIDE DIHYDRATE	10025-69-1	0.1 - 1

## 4. First Aid Measures

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<b>First aid procedures</b>	
<b>Eye contact</b>	Flush thoroughly with water. If irritation occurs, get medical assistance.
<b>Skin contact</b>	Flush skin thoroughly with water. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
<b>Ingestion</b>	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
<b>General advice</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire Fighting Measures

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<b>Flammable properties</b>	The product is not flammable. No unusual fire or explosion hazards noted.
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## Extinguishing media

### Suitable extinguishing media

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

## Protection of firefighters

### Protective equipment and precautions for firefighters

In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.

### Specific methods

In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

## 6. Accidental Release Measures

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### Personal precautions

Avoid inhalation of dust. Wear appropriate protective equipment and clothing during clean-up.

### Environmental precautions

Do not contaminate water.

### Methods for cleaning up

Should not be released into the environment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Following product recovery, flush area with water.

## 7. Handling and Storage

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### Handling

Avoid contact with eyes. Do not use in areas without adequate ventilation. Wear personal protective equipment. Wash thoroughly after handling. Handle and open container with care. When using, do not eat, drink or smoke.

### Storage

Keep container tightly closed. Use care in handling/storage. Keep at temperature not exceeding 8 °C.

## 8. Exposure Controls / Personal Protection

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### Occupational exposure limits

#### ACGIH

##### Components

##### Type

##### Value

STANNOUS CHLORIDE DIHYDRATE (10025-69-1)

TWA

2.0000 mg/m<sup>3</sup>

#### U.S. - OSHA

##### Components

##### Type

##### Value

STANNOUS CHLORIDE DIHYDRATE (10025-69-1)

PEL

2.0000 mg/m<sup>3</sup>

TWA

2.0000 mg/m<sup>3</sup>

### Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal protective equipment

#### Eye / face protection

Avoid contact with eyes. Safety glasses with side-shields.

#### Skin protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### General hygiene considerations

Avoid contact with eyes. Avoid contact with skin.

## 9. Physical & Chemical Properties

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### Appearance

Powder.

### Color

Not available.

### Odor

Odorless.

### Odor threshold

Not available.

### Physical state

Solid.

### Form

Solid.

<b>pH</b>	Not available.
<b>Melting point</b>	399.2 °F (204 °C) estimated
<b>Freezing point</b>	399.2 °F (204 °C) estimated
<b>Boiling point</b>	1153.4 °F (623 °C) estimated
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	0.33 hPa estimated
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	3.9004 estimated
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Percent volatile</b>	0 % estimated

## 10. Chemical Stability & Reactivity Information

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<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Incompatible materials</b>	Oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon oxides.

## 11. Toxicological Information

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### Toxicological data

#### Components

#### Test Results

STANNOUS CHLORIDE DIHYDRATE (10025-69-1)	Acute Oral LD50 Mouse: 1200 mg/kg Acute Oral LD50 Rat: 700 mg/kg
DIMERCAPTOSUCCINIC ACID (304-55-2)	Acute Other LD50 Mouse: >= 3000 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Local effects</b>	May cause eye irritation.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Skin corrosion/irritation</b>	Not available.
<b>Epidemiology</b>	Not available.
<b>Neurological effects</b>	Not available.

## 12. Ecological Information

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### Ecotoxicological data

#### Product

#### Test Results

TECHNESCAN® DMSA (Mixture)	EC50 Daphnia: 8911 mg/l 48.00 Hours estimated
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**Components****Test Results**

STANNOUS CHLORIDE DIHYDRATE (10025-69-1)

EC50 Water flea (Daphnia magna): 55 mg/l 48.00 Hours

\* Estimates for product may be based on additional component data not shown.

<b>Ecotoxicity</b>	Contains a substance which causes risk of hazardous effects to the environment.
<b>Environmental effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b>Persistence and degradability</b>	Not available.

**13. Disposal Considerations**

<b>Disposal instructions</b>	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
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**14. Transport Information****DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**15. Regulatory Information**

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.  CERCLA/SARA Hazardous Substances - Not applicable.
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**CERCLA (Superfund) reportable quantity**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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<b>Section 311 hazardous chemical</b>	Yes
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**Inventory status**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

## 16. Labeling Info

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<b>Label Hazard Warning</b>	CAUTION  May cause eye irritation.
<b>Label Precautions</b>	Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Label First Aid</b>	Immediately flush skin with plenty of water. Flush skin thoroughly with water. If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. Get medical attention if irritation develops or persists. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting without advice from poison control center.

## 17. Other Information

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<b>NFPA ratings</b>	Health: 2 Flammability: 0 Instability: 0
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