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MSDS Number: CONRN \* \* \* \* \* Effective Date: 09/15/98 \* \* \* \* \* Supercedes: 01/01/98

**MSDS****Material Safety Data Sheet**

From: Mallinckrodt Inc.  
675 McDonnell Blvd.  
St. Louis, MO 63042

**MALLINCKRODT**

24 Hour Emergency Telephone: 314-654-1600  
CHEMTREC: 1-800-424-9300

National Response in Canada  
CANUTEC: 613-996-6666

Outside U.S. And Canada  
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

**CONRAY(R)****1. Product Identification**

**Synonyms:** Conray(R) 30; Conray(R)43; Cysto Conray(R); Cysto Conray(R) II;  
Iothalamate Meglumine; 1-Deoxy-1-(methylamino)-D-glucitol 5-acetamido-2,4,6-triiodo-  
N-methyisophthalamate (salt)  
**CAS No.:** 13087-53-1  
**Molecular Weight:** 809.17  
**Chemical Formula:** C<sub>11</sub>H<sub>9</sub>I<sub>3</sub>N<sub>2</sub>O<sub>4</sub>C<sub>7</sub>H<sub>17</sub>NO<sub>5</sub>  
**Product Codes:** 0953

250 mL

Cat. No. 0862-82

Injection U.S.P. 17.2% (w/v)

**2. Composition/Information on Ingredients**

| Ingredient             | CAS No     | Percent | Hazardous |
|------------------------|------------|---------|-----------|
| Iothalamate Meglumine  | 13087-53-1 | 60%     | No        |
| Proprietary Components | N/A        | 40%     | No        |

**3. Hazards Identification****Emergency Overview**

**Read package insert prior to use. As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.**

#### **Potential Health Effects**

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**Inhalation:**

Not expected to be a health hazard.

**Ingestion:**

Extremely large oral dosages may produce gastrointestinal disturbances.

**Skin Contact:**

No adverse effects expected.

**Eye Contact:**

No adverse effects expected but splashes may cause mechanical irritation.

**Chronic Exposure:**

No adverse health effects expected.

**Aggravation of Pre-existing Conditions:**

May provoke an allergic reaction in people allergic to iodine or iodinated substances.

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## **4. First Aid Measures**

**Inhalation:**

Not expected to require first aid measures.

**Ingestion:**

If large amounts were swallowed, give water to drink and get medical advice.

**Skin Contact:**

Wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.

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## **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 Information:**

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.

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## 6. Accidental Release Measures

Small spills may be mopped up or flushed to sewer. Large spills may be collected for disposal or absorbed with an inert material and containerized for disposal. Flush any residue with copious amounts of water.

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## 7. Handling and Storage

Store below 30C (86F) and protect from light.

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## 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:**

None established.

**Ventilation System:**

Not expected to require any special ventilation.

**Personal Respirators (NIOSH Approved):**

Not expected to require personal respirator usage.

**Skin Protection:**

Wear protective gloves and clean body-covering clothing.

**Eye Protection:**

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

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## 9. Physical and Chemical Properties

**Appearance:**

Clear aqueous solution.

**Odor:**

Odorless.

**Solubility:**

Very soluble in water.

**Specific Gravity:**

1.315 - 1.335 (Conray) 1.22 - 1.25 (Conray 43, Cysto Conray) 1.15 - 1.17 (Conray 30) 1.09 - 1.099 (Cysto Conray II)

**pH:**

No information found.

**% Volatiles by volume @ 21C (70F):**

No information found.

**Boiling Point:**

ca. 100C (ca. 212F)

**Melting Point:**

ca. 0C (ca. 32F)

**Vapor Density (Air=1):**

No information found.

**Vapor Pressure (mm Hg):**

No information found.

**Evaporation Rate (BuAc=1):**

No information found.

## 10. Stability and Reactivity

**Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

May emit toxic fumes of nitrogen oxides and iodine when heated to decomposition.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

No information found.

**Conditions to Avoid:**

No information found.

## 11. Toxicological Information

Intravenous rat LD50: 10.5 gm/kg; Intracerebral rat LD50: 205 mg/kg.

| Ingredient                         | ---NTP Carcinogen--- |             | IARC Category |
|------------------------------------|----------------------|-------------|---------------|
|                                    | Known                | Anticipated |               |
| Iothalamate Meglumine (13087-53-1) | No                   | No          | None          |
| Proprietary Components             | No                   | No          | None          |

## 12. Ecological Information

**Environmental Fate:**

No adverse ecological effects are expected.

**Environmental Toxicity:**

No adverse ecological effects are expected.

## 13. Disposal Considerations

Collected spills may be flushed to sewer with large amounts of water. Containerized

material may be disposed in an approved waste facility. 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 a biohazard, waste Conray is considered non-hazardous. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Not regulated.

## 15. Regulatory Information

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-----\Chemical Inventory Status - Part 1\-----
Ingredient                               TSCA  EC   Japan  Australia
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Iothalamate Meglumine (13087-53-1)      Exempt Yes   No     No
Proprietary Components                   Exempt No    No     No

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-----\Chemical Inventory Status - Part 2\-----
Ingredient                               Korea  DSL   NDSL  Phil.
-----
Iothalamate Meglumine (13087-53-1)      No     No    No     No
Proprietary Components                   No     No    No     No

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-----\Federal, State & International Regulations - Part 1\-----
Ingredient                               -SARA 302-  -SARA 313-
RQ    TPQ    List  Chemical Catg.
-----
Iothalamate Meglumine (13087-53-1)      No    No    No     No
Proprietary Components                   No    No    No     No

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-----\Federal, State & International Regulations - Part 2\-----
Ingredient                               CERCLA  -RCRA-  -TSCA-
261.33  8 (d)
-----
Iothalamate Meglumine (13087-53-1)      No     No     No
Proprietary Components                   No     No     No

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Chemical Weapons Convention: No      TSCA 12(b): No      CDTA: No  
SARA 311/312: Acute: No      Chronic: No      Fire: No      Pressure: No  
Reactivity: No      (Mixture / Liquid)

**Australian Hazchem Code:** No information found.

**Poison Schedule:** No information found.

### 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.

## 16. Other Information

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

**Label Hazard Warning:**

Read package insert prior to use. As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

**Label Precautions:**

None.

**Label First Aid:**

Not applicable.

**Product Use:**

Diagnostic imaging agent

**Revision Information:**

MSDS Section(s) changed since last revision of document include: 1.

**Disclaimer:**

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