

# 3,3'-Diiodo-L-thyronine: sc-206692



*The Power to Question*

## MATERIAL SAFETY DATA SHEET

### Section 1 - Product and Company Information

Product Name 3,3'-Diiodo-L-thyronine  
Catalog Number sc-206692  
Supplier Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, California 95060  
800.457.3801 or 831.457.3800  
Emergency ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255  
(1-800-CHEMCALL) or call +613 9573 3112

### Section 2 - Composition/Information on Ingredient

|  |             |          |
|--|-------------|----------|
| Substance Name                           | CAS #       | SARA 313 |
| 3,3'-DIIODO-L-THYRONINE (T2), 98 %<br>CP | 4604-41-5   | No       |
| Formula                                  | C15H13I2NO4 |          |
| Synonyms                                 | T2          |          |

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Toxic (USA) Harmful (EU).  
Harmful if swallowed.

#### HMIS RATING

HEALTH: 2  
FLAMMABILITY: 0  
REACTIVITY: 0

#### NFPA RATING

HEALTH: 2  
FLAMMABILITY: 0  
REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

#### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.  
Call a physician.

#### EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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#### Section 5 - Fire Fighting Measures

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##### FLASH POINT

N/A

##### AUTOIGNITION TEMP

N/A

##### FLAMMABILITY

N/A

##### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

##### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Specific Hazard(s): Emits toxic fumes under fire conditions.

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#### Section 6 - Accidental Release Measures

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##### PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

##### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

##### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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#### Section 7 - Handling and Storage

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##### HANDLING

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

##### STORAGE

Suitable: Keep tightly closed.  
Store at -20°C

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#### Section 8 - Exposure Controls / PPE

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##### ENGINEERING CONTROLS

Mechanical exhaust required. Safety shower and eye bath.

##### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering

controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

#### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

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### Section 9 - Physical/Chemical Properties

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|                       |                       |                            |
|-----------------------|-----------------------|----------------------------|
| Appearance            | Physical State: Solid |                            |
| Property              | Value                 | At Temperature or Pressure |
| Molecular Weight      | 525.08 AMU            |                            |
| pH                    | N/A                   |                            |
| BP/BP Range           | N/A                   |                            |
| MP/MP Range           | N/A                   |                            |
| Freezing Point        | N/A                   |                            |
| Vapor Pressure        | N/A                   |                            |
| Vapor Density         | N/A                   |                            |
| Saturated Vapor Conc. | N/A                   |                            |
| Bulk Density          | N/A                   |                            |
| Odor Threshold        | N/A                   |                            |
| Volatile%             | N/A                   |                            |
| VOC Content           | N/A                   |                            |
| Water Content         | N/A                   |                            |
| Solvent Content       | N/A                   |                            |
| Evaporation Rate      | N/A                   |                            |
| Viscosity             | N/A                   |                            |
| Surface Tension       | N/A                   |                            |
| Partition Coefficient | Log Kow: 0.065        |                            |
| Decomposition Temp.   | N/A                   |                            |
| Flash Point           | N/A                   |                            |
| Explosion Limits      | N/A                   |                            |
| Flammability          | N/A                   |                            |
| Autoignition Temp     | N/A                   |                            |
| Refractive Index      | N/A                   |                            |
| Optical Rotation      | N/A                   |                            |
| Miscellaneous Data    | N/A                   |                            |
| Solubility            | N/A                   |                            |

N/A = not available

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### Section 10 - Stability and Reactivity

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#### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen iodide.

#### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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### Section 11 - Toxicological Information

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#### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.  
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.  
Ingestion: Harmful if swallowed.

#### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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#### Section 12 - Ecological Information

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No data available.

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#### Section 13 - Disposal Considerations

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##### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

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#### Section 14 - Transport Information

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##### DOT

Proper Shipping Name: None  
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

##### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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#### Section 15 - Regulatory Information

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##### EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xn  
Indication of Danger: Harmful.  
R: 22  
Risk Statements: Harmful if swallowed.

##### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Toxic (USA) Harmful (EU).  
Risk Statements: Harmful if swallowed.

##### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

##### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.  
DSL: No  
NDSL: No

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#### Section 16 - Other Information

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##### DISCLAIMER

For R&D use only. Not for drug, household or other uses.

##### WARRANTY

***The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.***