



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Thallium(I) Iodide: sc-264404



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1 Identification of substance:

**Product Name:** Thallium(I) Iodide  
**Catalog Number:** sc-264404  
**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

### 2 Hazard(s) identification

**Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**



GHS06 Skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed.  
Acute Tox. 2 H330 Fatal if inhaled.



GHS08 Health hazard

STOT RE 2 H373 May cause damage to the blood tissue through prolonged or repeated exposure. Route of exposure: Oral.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T+; Very toxic

R26/28: Very toxic by inhalation and if swallowed.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R33: Danger of cumulative effects.

**Information concerning particular hazards for human and environment:** Not applicable  
**Hazards not otherwise classified** No information known.

#### Label elements

**Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labeled according to the CLP regulation.

#### Hazard pictograms



GHS06



GHS08

**Signal word** Danger

#### Hazard statements

H300+H330 Fatal if swallowed or if inhaled.

H373 May cause damage to the blood tissue through prolonged or repeated exposure. Route of exposure: Oral.

**Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P284 [In case of inadequate ventilation] wear respiratory protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/...  
P320 Specific treatment is urgent (see on this label).  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**WHMIS classification**

D1A - Very toxic material causing immediate and serious toxic effects



**Classification system**

**HMIS ratings (scale 0-4)**

**(Hazardous Materials Identification System)**

HEALTH	3	Health (acute effects) = 3
FIRE	0	Flammability = 0
REACTIVITY	1	Physical Hazard = 1

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3 Composition/information on ingredients

**Chemical characterization: Substances**

**CAS# Description:**

7790-30-9 Thallium(I) iodide

**Identification number(s):**

**EC number:** 232-199-7

**Index number:** 081-002-00-9

### 4 First-aid measures

**Description of first aid measures**

**General information**

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing has been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

**After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

**After skin contact**

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

**After eye contact**

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing** Do not induce vomiting; immediately call for medical help.

**Information for doctor**

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing agents**

Product is not flammable. Use fire fighting measures that suit the surrounding fire.

**Special hazards arising from the substance or mixture**

If this product is involved in a fire, the following can be released:

Hydrogen iodide (HI)

Toxic metal oxide fume

#### Advice for firefighters

##### Protective equipment:

Wear self-contained respirator.  
Wear fully protective impervious suit.

## 6 Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation

#### Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.  
Do not allow product to reach sewage system or any water course.  
Do not allow to penetrate the ground/soil.

#### Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

**Prevention of secondary hazards:** No special measures required.

#### Reference to other sections

See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

#### Handling

##### Precautions for safe handling

Keep container tightly sealed.  
Store in cool, dry place in tightly closed containers.  
Ensure good ventilation at the workplace.  
Open and handle container with care.

**Information about protection against explosions and fires:** The product is not flammable

#### Conditions for safe storage, including any incompatibilities

**Storage** Store at room temperature.

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Store in the dark.

#### Further information about storage conditions:

Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.  
Protect from exposure to light.

**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

#### Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

#### Control parameters

Components with limit values that require monitoring at the workplace:

7790-30-9 Thallium(I) iodide (100.0%)

PEL (USA)	Long-term value: 0.1 mg/m <sup>3</sup> as Tl; Skin
REL (USA)	Long-term value: 0.1 mg/m <sup>3</sup> as Tl; Skin
TLV (USA)	Long-term value: 0.02* mg/m <sup>3</sup> as Tl; *inhalable fraction; Skin

**Additional information:** No data

#### Exposure controls

##### Personal protective equipment

##### General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Remove all soiled and contaminated clothing immediately.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Maintain an ergonomically appropriate working environment.

##### Breathing equipment:

Use self-contained respiratory protective device in emergency situations.

**Protection of hands:**

Impervious gloves

Check protective gloves prior to each use for their proper condition.

The selection of suitable gloves not only depends on the material, but also on quality.

Quality will vary from manufacturer to manufacturer.

**Eye protection:** Safety glasses**Body protection:** Protective work clothing.**9 Physical and chemical properties**

<b>Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Appearance:</b>	
Form:	Powder/crystalline/beads
Formula:	TlI
Weight:	331.29
<b>pH-value:</b> Not applicable.	
<b>Change in condition</b>	
Melting point/Melting range:	440 °C (824 °F)
Boiling point/Boiling range:	824 °C (1515 °F)
Sublimation temperature / start:	Not determined
Flammability (solid, gaseous)	Not determined.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
<b>Danger of explosion:</b> Not determined.	
<b>Explosion limits:</b>	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not applicable.
Density at 20 °C (68 °F):	7.1 g/cm <sup>3</sup> (59.25 lbs/gal)
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
<b>Solubility in / Miscibility with</b>	
Water:	Insoluble
Partition coefficient (n-octanol/water):	Not determined.
<b>Viscosity:</b>	
dynamic:	Not applicable.
kinematic:	Not applicable.
<b>Other information</b> No further relevant information available.	

**10 Stability and reactivity****Reactivity** No information known.**Chemical stability** Stable under recommended storage conditions.**Thermal decomposition / conditions to be avoided:**

Decomposition will not occur if used and stored according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known**Incompatible materials:** Light**Hazardous decomposition products:**

Hydrogen iodide (HI)

Toxic metal oxide fume

**11 Toxicological information****Information on toxicological effects****Acute toxicity:**

Fatal if inhaled.

Fatal if swallowed.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.

**LD/LC50 values that are relevant for classification:**

Oral | LD50 | 24.1 mg/kg (rat)

**Skin irritation or corrosion:** May cause irritation**Eye irritation or corrosion:** May cause irritation

**Sensitization:** No sensitizing effects known.  
**Germ cell mutagenicity:** No effects known.  
**Carcinogenicity:** EPA-II: Inadequate information to assess carcinogenic potential.  
**Reproductive toxicity:** No effects known.  
**Specific target organ system toxicity - repeated exposure:**  
 May cause damage to the blood tissue through prolonged or repeated exposure. Route of exposure: Oral.  
**Specific target organ system toxicity - single exposure:** No effects known.  
**Aspiration hazard:** No effects known.  
**Subacute to chronic toxicity:**  
 The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.  
**Additional toxicological information:**  
 To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.


## 12 Ecological information





**Toxicity**  
**Aquatic toxicity:** No further relevant information available.  
**Persistence and degradability** No further relevant information available.  
**Behavior in environmental systems:**  
**Bioaccumulative potential** No further relevant information available.  
**Mobility in soil** No further relevant information available.  
**Additional ecological information:**  
**General notes:**  
 Do not allow material to be released to the environment without proper governmental permits.  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Danger to drinking water if even extremely small quantities leak into the ground.  
 Also poisonous for fish and plankton in water bodies.  
 Toxic to aquatic life.  
 May cause long lasting harmful effects to aquatic life.  
 Avoid transfer into the environment.  
**Results of PBT and vPvB assessment**  
**PBT:** Not applicable.  
**vPvB:** Not applicable.  
**Other adverse effects** No further relevant information available.

## 13 Disposal considerations

**Waste treatment methods**  
**Recommendation** Consult state, local or national regulations to ensure proper disposal.  
**Uncleaned packagings:**  
**Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

<b>UN-Number</b> DOT, ADR, IMDG, IATA	UN1707
<b>UN proper shipping name</b> DOT ADR IMDG IATA	Thallium compounds, n.o.s. (Thallium(I) iodide) 1707 Thallium compounds, n.o.s. (Thallium(I) iodide) THALLIUM COMPOUND, N.O.S. (Thallium(I) iodide), MARINE POLLUTANT THALLIUM COMPOUND, N.O.S. (Thallium(I) iodide)
<b>Transport hazard class(es)</b> DOT	
	
<b>Class</b>	6.1 Toxic substances.

<b>Label</b> <b>ADR</b>	6.1
	
<b>Class</b> <b>Label</b> <b>IMDG</b>	6.1 (T5) Toxic substances 6.1
 	
<b>Class</b> <b>Label</b> <b>IATA</b>	6.1 Toxic substances. 6.1
	
<b>Class</b> <b>Label</b>	6.1 Toxic substances. 6.1
<b>Packing group</b> <b>DOT, ADR, IMDG, IATA</b>	II
<b>Environmental hazards:</b> <b>Marine pollutant (IMDG):</b>	Environmentally hazardous substance, solid; Marine Pollutant Yes (P) Symbol (fish and tree)
<b>Special precautions for user</b> <b>Danger code (Kemler):</b> <b>EMS Number:</b>	Warning: Toxic substances 60 F-A,S-A
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b> <b>DOT</b> <b>Marine Pollutant (DOT):</b> <b>Remarks:</b>	No Special marking with the symbol (fish and tree).
<b>UN "Model Regulation":</b>	UN1707, Thallium compounds, n.o.s. (Thallium(I) iodide), 6.1, II

## 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

### National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).

### SARA Section 313 (specific toxic chemical listings)

7790-30-9	Thallium(I) iodide
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### California Proposition 65

**Prop 65 - Chemicals known to cause cancer** Substance is not listed.

**Prop 65 - Developmental toxicity** Substance is not listed.

**Prop 65 - Developmental toxicity, female** Substance is not listed.

**Prop 65 - Developmental toxicity, male** Substance is not listed.

### Information about limitation of use:

For use only by technically qualified individuals.

This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

*Other regulations, limitations and prohibitive regulations*  
*Substances of very high concern (SVHC) according to REACH, Article 57*  
*Substance is not listed.*  
*REACH - Pre-registered substances Substance is listed.*  
*Chemical safety assessment: A Chemical Safety Assessment has not been carried out.*

**16 Other information:**

*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.*

04/16/2014