

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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ULM-9223	
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SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: L-3,3'-DIIODOTHYRONINE (T2) UNLABELED
CAS No	: 4604-41-5
Product code	: ULM-9223
Formula	: C15H13I2NO4
Synonyms	: T2 / 3,3'-diiodo-4-(4-hydroxyphenoxy)-L-phenylalanine /
	O-(4-Hydroxyphenyl)-3,3'-diiodo-L-tyrosine
1.2. Relevant identified uses of the	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only.
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the s	afety data sheet
Cambridge Isotope Laboratories, Inc.	
50 Frontage Road	
Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-80	00
cilsales@isotope.com www.isotope.com	
Emergency telephone number	
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)	
SECTION 2: Hazards identificati	on
2.1. Classification of the substance	e or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute Tox. 4 (Oral) H302	
Full text of H-phrases: see section 16	
Classification according to Directive 67/	/548/EEC or 1999/45/EC
Xn; R22	
Full text of R-phrases: see section 16	
Classification (GHS-US)	
Acute Tox. 4 (Oral) H302	
· · · · · ·	
Adverse physicochemical, human healt	h and environmental effects
No additional information available	
2.2. Label elements	
Labeling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	:
······································	

Signal word (CLP)

: Warning

GHS07

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Hazard statements (CLP)	: H302 - Harmful if swallowed
Precautionary statements (CLP)	 P264 - Wash Both hands thoroughly after handling P270 - Do no eat, drink or smoke when using this product P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell P330 - Rinse mouth P501 - Dispose of contents/container to Comply with applicable regulations.
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS07

: H302 - Harmful if swallowed

: Warning

Hazard statements (GHS-US)

Signal word (GHS-US)

Precautionary statements (GHS-US)

- P264 Wash Both hands thoroughly after handling
 P270 Do no eat, drink or smoke when using this product
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 P330 If swallowed, rinse mouth
 P501 Dispose of contents/container to Comply with applicable regulations.
- 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on i	ngredients		
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-3,3'-DIIODOTHYRONINE (T2) UNLABELED (Main constituent)	(CAS No) 4604-41-5	100	Xn; R22
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-3,3'-DIIODOTHYRONINE (T2) UNLABELED (Main constituent)	(CAS No) 4604-41-5	100	Acute Tox. 4 (Oral), H302

Full text of R-, H- and EUH-phrases: see section 16

Name	Product identifier	%	Classification (GHS-US)
L-3,3'-DIIODOTHYRONINE (T2) UNLABELED (Main constituent)	(CAS No) 4604-41-5	100	Acute Tox. 4 (Oral), H302

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	 If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: Wash off with soap and plenty of water. Consult a physician.
First-aid measures after eye contact	: Flush eyes with water as a precaution.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed.

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4.3. Indication of any immediate medica No additional information available	I attention and special treatment needed
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.2. Special hazards arising from the su	· · · · · ·
Reactivity	: Not available.
5.3. Advice for firefighters	
Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	sures
	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.
	Ensure adequate ventilation. Avoid breathing dust.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Do not let product enter drains.	
6.3. Methods and material for containme	ent and cleaning up
For containment	: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	 Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Hygiene measures	 Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures	: Keep container tightly closed in a cool, dry and well-ventilated place.
Storage conditions	: Store in freezer (-20°C). Protect from light.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	onal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
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Environmental exposure controls

: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Environmental exposure controls	: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.				
SECTION 9: Physical and chemical	properties				
9.1. Information on basic physical and chemical properties					
Physical state	: Solid				
Appearance	: Solid.				
Molecular mass	: 525.08 g/mol				
Color	: white.				
Odor	: No data available.				
Odor threshold	: No data available				
рН	: No data available				
Relative evaporation rate (butyl acetate=1)	: No data available				
Melting point	: No data available				
Freezing point	: No data available				
Boiling point	: No data available				
Flash point	: No data available				
Self ignition temperature	: No data available				
Decomposition temperature	: No data available				
Flammability (solid, gas)	: No data available				
Vapor pressure	: No data available				
Relative vapor density at 20 °C	: No data available				
Relative density	: No data available				
Solubility	: No data available				
Log Pow	: No data available				
Log Kow	: No data available				
Viscosity, kinematic	: No data available				
Viscosity, dynamic	: No data available				
Explosive properties	: No data available				
Oxidizing properties	: No data available				
Explosive limits	: No data available				
9.2. Other information					
No additional information available					
SECTION 10: Stability and reactivity	/				
10.1. Reactivity					
Not available.					
10.2. Chemical stability					
Stable if stored under recommended conditions					
10.3. Possibility of hazardous reactions					
No additional information available					
10.4. Conditions to avoid					
Not available.					
10.5. Incompatible materials					

Strong oxidizing agents.

10.6. Hazardous decomposition products

carbon oxides. Nitrogen oxides. hydrogen iodide.

SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity	Harmful if swallowed.			
L-3,3'-DIIODOTHYRONINE (T2) UNLABELED (4604-41-5)				
ATE (oral)	500.000 mg/kg body weight			
Skin corrosion/irritation	Not classified No data available			
Serious eye damage/irritation	Not classified No data available			

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Respiratory or skin sensitization	:	Not available No data available	
Germ cell mutagenicity Carcinogenicity		Not available Not classified	
Reproductive toxicity Specific target organ toxicity (single exposure)		Not classified Not classified No data available	
Specific target organ toxicity (repeated exposure)	:	Not classified No data available	
Aspiration hazard	:	Not classified	
Potential Adverse human health effects and symptoms	:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
Symptoms/injuries after inhalation	:	May be harmful if inhaled. May cause respiratory tract irritation.	
Symptoms/injuries after skin contact	:	May be harmful if absorbed through skin. May cause skin irritation.	
Symptoms/injuries after eye contact	:	May cause eye irritation.	
Symptoms/injuries after ingestion	:	Harmful if swallowed.	

SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	tional information available

.2. Persistence and degradability				
L-3,3'-DIIODOTHYRONINE (T2) UNLABELED (4604-41-5)				
Persistence and degradability	Not available.			
12.3. Bioaccumulative potential				
L-3,3'-DIIODOTHYRONINE (T2) UNLABELED (4	4604-41-5)			
Bioaccumulative potential	Not available.			
12.4. Mobility in soil				
L-3,3'-DIIODOTHYRONINE (T2) UNLABELED (4	4604-41-5)			
Ecology - soil	Not available.			
12.5. Results of PBT and vPvB assessment				
No additional information available				
12.6. Other adverse effects				
Other adverse effects	Not available.			
SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Regional legislation (waste)	Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.			
Waste disposal recommendations	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.			
Ecology - waste materials	Dispose of as unused product.			
SECTION 14: Transport information	SECTION 14: Transport information			
In accordance with ADR / RID / ADNR / IMDG / IC	ΑΟ / ΙΑΤΑ			
14.1. UN number				
Not applicable				
14.2. UN proper shipping name				
Not applicable				
14.3. Additional information				
Other information	: No supplementary information available.			
Special transport precautions	Not dangerous goods.			

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Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

14.4.	Environmental hazards	
Other in	formation	: No supplementary information available.
14.5.	Special precautions for user	
Special transport precautions		: Not dangerous goods.

Not applicable

SECTION 15: Regulatory information		
15.1. US Federal regulations		
L-3,3'-DIIODOTHYRONINE (T2) UNLABELED (4604-41-5)		
Immediate (acute) health hazard		

15.2. International regulations

CANADA

L-3,3'-DIIODOTHYRONINE (T2) UNLABELED (4604-41-5) Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations

L-3,3'-DIIODOTHYRONINE (T2) UNLABELED(4604-41-5)			
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.		

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
H302	Harmful if swallowed	
R22	Harmful if swallowed	
Xn	Harmful	

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NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible

	•		
0	:		

: 0 Minimal Hazard

Minimal Hazard

CIL Multi-Solvent Mixture SDS

Physical

Flammability

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product