Telefax: +49 3528 4041 65

# **Safety Data Sheet**

according to UK REACH Regulation

### N,O-Di-Boc-2-TMSnL-tyrosine ethyl ester

Revision date: 09.05.2022 Product code: 3000 Page 1 of 6

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

N,O-Di-Boc-2-TMSnL-tyrosine ethyl ester

#### Further trade names

CA index name: L-Tyrosine, N-[(1,1-dimethylethoxy)carbonyl]-2-(trimethylstannyl)-, ethyl ester, 1,1-dimethylethyl carbonate (ester)

Synonymes:

N,O-Di-Boc-2-trimethylstannyl-L-p-tyrosine ethyl ester; 2-TT

Trimethylstannyl-L-DOPA

CAS No: 400885-40-7

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Precursor for preparation of [18F]Fluoro-L-tyrosine

#### 1.3. Details of the supplier of the safety data sheet

Company name: ABX advanced biochemical compounds

Biomedizinische Forschungsreagenzien GmbH

Street: Heinrich-Gläser-Straße 10-14

Place: 01454 Radeberg
Telephone: +49 3528 4041 60

e-mail: info@abx.de

Contact person: Dr. Christoph Meyer Telephone: +49 3528 4041 8732

e-mail: meyer@abx.de Internet: http://www.abx.de

1.4. Emergency telephone +49 3528 4041 60

number:

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# **GB CLP Regulation**

Acute Tox. 3; H301 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

# **GB CLP Regulation**

Signal word: Danger

Pictograms:







# **Hazard statements**

H301 Toxic if swallowed.

H312 Harmful in contact with skin.

according to UK REACH Regulation

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H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H372	Causes damage to organs through prolonged or repeated exposure.		
H410	Very toxic to aquatic life with long lasting effects.		
Precautionary statemer	nts		
P273	Avoid release to the environment.		
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.		
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.		
P302+P352	IF ON SKIN: Wash with plenty of water.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

P314

### **Chemical characterization**

L-Tyrosine, N-[(1,1-dimethylethoxy)carbonyl]-2-

(trimethylstannyl)-, ethyl ester, 1,1-dimethylethyl carbonate (ester)

Get medical advice/attention if you feel unwell.

Sum formula: C24H39NO7Sn

Molecular weight: 572.28

#### **Hazardous components**

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
400885-40-7	N,O-Di-Boc-2-TMSnL-tyrosine ethyl ester		95 - < 100 %	
	Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H301 H312 H315 H319 H372 H400 H410			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

	,		
CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
400885-40-7		N,O-Di-Boc-2-TMSnL-tyrosine ethyl ester	95 - < 100 %
	dermal: ATE = 1100 mg/kg; oral: ATE = 100 mg/kg		_

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **General information**

First aider: Pay attention to self-protection!

### After inhalation

No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately. Provide fresh air. In case of breathing difficulties administer oxygen. In all cases of doubt, or when symptoms persist, seek medical advice.

# After contact with skin

Medical treatment necessary. After contact with skin, wash immediately with: Water. Change contaminated clothing. Seek medical advice.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

according to UK REACH Regulation

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### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Suitable extinguishing media: Water spray. Foam. Extinguishing powder. Carbon dioxide (CO2).

#### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide Nitrogen oxides (NOx).

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

### **SECTION 6: Accidental release measures**

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

#### General advice

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Avoid dust formation. Clear contaminated areas thoroughly.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

# Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. Do not eat, drink, smoke or sneeze at the workplace.

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

### Requirements for storage rooms and vessels

Keep container dry. Keep locked up. Store in a place accessible by authorized persons only. Keep container tightly closed in a cool, well-ventilated place. Restrict access to stockrooms.

# Further information on storage conditions

storage temperature:

of °C:-25

up to °C:-15

Store under (Gas): argon. Nitrogen.

#### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

according to UK REACH Regulation

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#### 8.2. Exposure controls

#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

#### Individual protection measures, such as personal protective equipment

#### Respiratory protection

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: odourless

Changes in the physical state

Water solubility: The study does not need to be conducted

because the substance is known to be insoluble in water.

Solubility in other solvents

Chloroform

### **SECTION 10: Stability and reactivity**

### 10.5. Incompatible materials

Water. Oxidizing agents, strong.

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in GB CLP Regulation

### **Acute toxicity**

Toxic. Acute toxicity, oral. Acute toxicity, inhalant. Acute toxicity, dermal.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
400885-40-7	N,O-Di-Boc-2-TMSnL-tyrosine ethyl ester				
		ATE 100 mg/kg			
	dermal	ATE 1100 mg/kg			

### Irritation and corrosivity

Irritating to eyes. After skin contact: irritant.

### STOT-repeated exposure

Danger of serious damage to health by prolonged exposure.

#### **Further information**

Additional information:

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

according to UK REACH Regulation

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#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### **Further information**

Do not allow uncontrolled discharge of product into the environment.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; discarded organic chemicals consisting of or containing hazardous

substances; hazardous waste

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160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; discarded organic chemicals consisting of or containing hazardous

substances; hazardous waste

#### Contaminated packaging

Non-contaminated packages may be recycled.

### **SECTION 14: Transport information**

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3146

14.2. UN proper shipping name: ORGANOTIN COMPOUND, SOLID, N.O.S (contains

Trimethyltin-dopa-derivate)

14.3. Transport hazard class(es):6.114.4. Packing group:IIIHazard label:6.1

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3146

14.2. UN proper shipping name: ORGANOTIN COMPOUND, SOLID, N.O.S (contains

Trimethyltin-dopa-derivate)

 14.3. Transport hazard class(es):
 6.1

 14.4. Packing group:
 III

 Hazard label:
 6.1

Marine transport (IMDG)

14.1. UN number or ID number: UN 3146

14.2. UN proper shipping name: ORGANOTIN COMPOUND, SOLID, N.O.S (contains

Trimethyltin-dopa-derivate)

 14.3. Transport hazard class(es):
 6.1

 14.4. Packing group:
 III

 Hazard label:
 6.1

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3146

14.2. UN proper shipping name: ORGANOTIN COMPOUND, SOLID, N.O.S (contains

Trimethyltin-dopa-derivate)

14.3. Transport hazard class(es):6.114.4. Packing group:IIIHazard label:6.1

### Other applicable information

according to UK REACH Regulation

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# **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

# **National regulatory information**

Water hazard class (D): 3 - highly hazardous to water

# **SECTION 16: Other information**

# Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.