according to UK REACH Regulation

### **TetraBoc SGMIB tin precursor**

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

#### 1.1. Product identifier

TetraBoc SGMIB tin precursor

#### Further trade names

2,5-dioxopyrrolidin-1-yl-4-((1,2,3,3-tetrakis(tert-butoxycarbonyl)guanidino)methyl)-

3-(trimethylstannyl)benzoate

synonyms: TetraBoc [131I]SGMIB tin precursor

[N-succinimidyl 4-guanidinomethyl-3-[1311]iodobenzoate]

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

#### Use of the substance/mixture

Precursor for [131I]SGMIB

#### 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

Telephone: +49 3528 4041 60 Telefax: +49 3528 4041 65

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. 1; H330 Acute Tox. 1; H310 Acute Tox. 2; H300 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

## **GB CLP Regulation**

### Hazard components for labelling

TetraBoc SGMIB tin precursor **Signal word:** Danger

Pictograms:







#### **Hazard statements**

H301 Toxic if swallowed.

H312 Harmful in contact with skin.

#### according to UK REACH Regulation

	TetraBoc SGMIB tin precursor	
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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	
P304	IF INHALED:	
P310	Immediately call a POISON CENTER/doctor.	
P340	Remove person to fresh air and keep comfortable for breathing.	
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.	
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
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**

2,5-dioxopyrrolidin-1-yl-4-((1,2,3,3-tetrakis(tert-butoxycarbonyl)guanidino)methyl)-

Get medical advice/attention if you feel unwell.

3-(trimethylstannyl)benzoate

Sum formula: C36H54N4O12Sn

Molecular weight: 853.54

#### **Hazardous components**

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
	TetraBoc SGMIB tin precursor			95 - < 100 %
	Acute Tox. 1, Acute Tox. 1, Acute Tox. 2, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H300 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. L	imits, M-factors and ATE	
		TetraBoc SGMIB tin precursor	95 - < 100 %
		= 0,05 mg/l (vapours); inhalation: ATE = 0,005 mg/l (dusts or mists); dermal: oral: ATE = 5 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.

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#### 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.

#### After indestion

Rinse mouth thoroughly with water. Call a physician immediately.

### **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

according to UK REACH Regulation

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up to °C:-15

Protect against: Light.

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

#### 8.1. Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 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: solid

Colour: whitish, yellow

Changes in the physical state

Water solubility:

The study does not need to be conducted because the substance is known to be

pecause the substance is known to be insoluble in water.

#### Solubility in other solvents

Chloroform, ethyl acetate. dimethylsulphoxide (DMSO)., Dichloromethane

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

#### 10.5. Incompatible materials

Water. Oxidizing agents, strong.

## 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx). Toxic metal oxide smoke.

### **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	
	TetraBoc SGMIB tin precursor						
	oral	ATE	5 mg/kg				
	dermal	ATE	5 mg/kg				
	inhalation vapour	ATE	0,05 mg/l				
		ATE mg/l	0,005				

## Irritation and corrosivity

Irritating to eyes. After skin contact: irritant.

#### Carcinogenic/mutagenic/toxic effects for reproduction

according to UK REACH Regulation

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Toxicological data are not available.

#### STOT-repeated exposure

Danger of serious damage to health by prolonged exposure.

#### **Further information**

Data obtained by analogy conclusion, e.g. QSAR.

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

#### 12.1. Toxicity

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
	TetraBoc SGMIB tin precursor					
	Aquatic toxicity	Data lacking				

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

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

#### 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

### List of Wastes Code - used product

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.

 $(2,5\hbox{-}dioxopyrrolidin-1-yl-4((1,2,3,3\hbox{-}tetrak is(tertbut oxycarbonyl)guanidino)} m$ 

ethyl)-3(trimethylstannyl)benzoate)

6.1 14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 6.1 Classification code: T3 Special Provisions: 43 274 Limited quantity: 5 kg Excepted quantity: E1 Transport category: 2

according to UK REACH Regulation

according to OK NEACH Regulation				
	TetraBoc SGMIB tin precursor			
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Hazard No:	60			
Tunnel restriction code:	E			
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. (2,5-dioxopyrrolidin-1-yl-4((1,2,3,3-tetrakis(tertbutoxycarbonyl)guanidino) ethyl)-3(trimethylstannyl)benzoate)	m		
14.3. Transport hazard class(es):	6.1			
14.4. Packing group:	III			
Hazard label:	6.1			
Classification code:	T3			
Special Provisions:	43 274 802			
Limited quantity:	5 kg			
Excepted quantity:	E1			
Marine transport (IMDG)	1101.0440			
14.1. UN number or ID number:	UN 3146			
14.2. UN proper shipping name:	ORGANOTIN COMPOUND, SOLID, N.O.S. (2,5-dioxopyrrolidin-1-yl-4((1,2,3,3-tetrakis(tertbutoxycarbonyl)guanidino)	ım		
	ethyl)-3(trimethylstannyl)benzoate)	111		
14.3. Transport hazard class(es):	6.1			
14.4. Packing group:				
Hazard label:	6.1			
Marine pollutant:	P			
Special Provisions:	43, 223, 274			
Limited quantity:	5 kg			
Excepted quantity:	E1			
EmS:	F-A, S-A			
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.			
	(2,5-dioxopyrrolidin-1-yl-4((1,2,3,3-tetrakis(tertbutoxycarbonyl)guanidino)	m		
14.2 Transport hazard class(as):	ethyl)-3(trimethylstannyl)benzoate) 6.1			
14.3. Transport hazard class(es): 14.4. Packing group:	III			
Hazard label:	6.1			
Special Provisions:	A3 A5 A6			
Limited quantity Passenger:	10 kg			
Passenger LQ:	Y645			
Excepted quantity:	E1			
IATA-packing instructions - Passenger:	670			
IATA-max. quantity - Passenger:	100 kg			
IATA-packing instructions - Cargo:	677			
IATA-max. quantity - Cargo:	200 kg			

## **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)

H300 Fatal if swallowed.

## according to UK REACH Regulation

TetraBoc SGMIB tin precursor				
Revision date: 16.06.2022	Product code: 7024	Page 7 of 7		
H301	Toxic if swallowed.			
H310	Fatal in contact with skin.			
H312	Harmful in contact with skin.			
H315	Causes skin irritation.			
H319	Causes serious eye irritation.			
H330	Fatal if inhaled.			
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.			