according to UK REACH Regulation

## Revision date: 23.05.2022

PE 2I tin Precursor Product code: 4165

Page 1 of 6

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

## 1.1. Product identifier

PE 2I tin Precursor

## Further trade names

CA index name: 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-methylphenyl)-8-[(2E)-3-(tributylstannyl)-2-propen-1-yl]-, methyl ester, (1R,2S,3S,5S)-

Synonyms: N-[3-(Tri-n-butylstannyl)prop-(2E)-enyl]-2b-carbomethoxy-3b-(4'-methylphenyl)nortropane; [<sup>123</sup>I]PE2I Precursor CAS No: 188680-65-1

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

#### Use of the substance/mixture

PE 2I tin Precursor may be used as precursor for [123]PE2I.

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

Company name: ABX advanced biochemical compounds		pounds
	Biomedizinische Forschungsrea	genzien GmbH
Street:	Heinrich-Gläser-Straße 10-14	
Place:	01454 Radeberg	
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**

Hazard categories: Acute toxicity: Acute Tox. 3 Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - repeated exposure: STOT RE 1 Hazardous to the aquatic environment: Aquatic Acute 1 Hazardous to the aquatic environment: Aquatic Chronic 1 Hazard Statements: Toxic if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

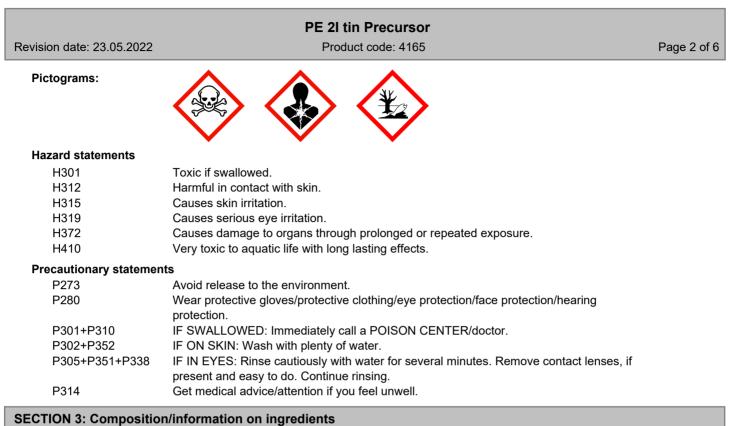
## 2.2. Label elements

## GB CLP Regulation

Signal word:

Danger

### according to UK REACH Regulation



# 3.1. Substances

Sum formula:	C31H51NO2Sn
Molecular weight:	588,45

#### Hazardous components

CAS No	Chemical name		Quantity	
	EC No Index No REACH No			
	Classification (GB CLP Regulation	n)		
188680-65-1	PE2I tin Precursor		95 - < 100 %	
	Acute Tox. 3, Acute Tox. 4, Skin I 1; H301 H312 H315 H319 H372 F		RE 1, Aquatic Acute 1, Aquatic Chronic	>

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	
188680-65-1		PE2I tin Precursor	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.

## according to UK REACH Regulation

## PE 2I tin Precursor

Revision date: 23.05.2022

Product code: 4165

Page 3 of 6

## 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.

## **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.

according to UK REACH Regulation

## **PE 2I tin Precursor**

Revision date: 23.05.2022

Product code: 4165

Page 4 of 6

## **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:	liquid
Colour:	colourless
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

Ethanol Chloroform Dichloromethane: Diethyl ether ethyl acetate.

## **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

0/10/10					
	Exposure route	Dose	Species	Source	Method
188680-65-1	PE2I tin Precursor				
	oral	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**

## according to UK REACH Regulation

PE 2I tir	n Precursor
-----------	-------------

Revision date: 23.05.2022

Product code: 4165

Page 5 of 6

#### 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.

## 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 2788
14.2. UN proper shipping name:	ORGANOTIN COMPOUND, LIQUID, N.O.S. ((Tributylstannyl)nortropane
	derivate)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	
Hazard label:	6.1
Classification code:	Т3
Special Provisions:	43 ; 274
Limited quantity:	LQ18
Transport category:	2
Hazard No:	60
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 2788
14.2. UN proper shipping name:	ORGANOTIN COMPOUND, LIQUID, N.O.S. ((Tributylstannyl)nortropane derivate)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	
Hazard label:	6.1
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 2788
14.2. UN proper shipping name:	ORGANOTIN COMPOUND, LIQUID, N.O.S. ((Tributylstannyl)nortropane
	derivate)
14.3. Transport hazard class(es):	6.1

## according to UK REACH Regulation

Devision data: 22.05.2022	PE 2I tin Precursor	Dere C ef
Revision date: 23.05.2022	Product code: 4165	Page 6 of
14.4. Packing group:	II	
Hazard label:	6.1	
Marine pollutant:	yes	
ir transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 2788	
14.2. UN proper shipping name:	ORGANOTIN COMPOUND, LIQUID, N.O.S. ((Tributylstannyl)nortropan derivate)	e
14.3. Transport hazard class(es):	6.1	
14.4. Packing group:	ll	
Hazard label:	6.1	
Special Provisions:	A5	
Limited quantity Passenger:	1kg	
IATA-packing instructions - Passenger:	614	
IATA-max. quantity - Passenger:	25kg	
IATA-packing instructions - Cargo:	616	
IATA-max. quantity - Cargo:	100kg	
4.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	Yes	
Other applicable information		

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.