according to UK REACH Regulation

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6-Trimethy	Istanny	I-L-DOP
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Product code: 1300

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

1.1. Product identifier

6-Trimethylstannyl-L-DOPA

Further trade names

L-Tyrosine, 5-[[(1,1-dimethylethoxy)carbony]oxy]-N-formyl-2-(trimethylstannyl)-,ethyl ester, 1,1-dimethylethyl carbonate Synonymes: N-Formyl-3,4-di-tert-butoxycarbonyloxy-6-(trimethyl-stannyl)-L-phenylalanine ethyl ester; Trimethylstannyl-L-DOPA

CAS No: 143993-90-2

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

Use of the substance/mixture

Precursor for preparation of 6-[18F]Fluoro-L-DOPA

1.3. Details of the supplier of the safety data sheet

Company name:	ABX advanced biochemical com	pounds
	Biomedizinische Forschungsreag	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

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:

Pictograms:



Hazard statements

H301 H312 Toxic if swallowed. Harmful in contact with skin.

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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 statemen	Its	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P301+P310	F 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.	
P314	Get medical advice/attention if you feel unwell.	
P313	Get medical advice/attention.	

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization	
	ethylethoxy)carbony]oxy]-N-formyl-2-(trimethylstannyl)-,ethyl ester, 1,1-dimethylethyl
carbonate	
Sum formula:	C25H39NO9Sn
Molecular weight:	616.28

Hazardous components

CAS No	Chemical name		Quantity	
	EC No	EC No Index No REACH No		
	Classification (GB CLP Regulation)			
143993-90-2	0-2 6-Trimethylstannyl-L-DOPA		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		
143993-90-2		6-Trimethylstannyl-L-DOPA	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

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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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

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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: Colour:	solid whitish white	
Odour:	odourless	
Changes in the physical state		
Water solubility:	The stud	

The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents

Chloroform Benzene

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
143993-90-2	6-Trimethylstannyl-L-DOF	PA			
		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.

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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

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. (Trimethyltin-dopa-derivate)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	III
Hazard label:	6.1
Classification code:	Т3
Special Provisions:	43 274
Limited quantity:	5 kg
Excepted quantity:	E1
Transport category:	2
Hazard No:	60
Tunnel restriction code:	E
Inland waterways transport (ADN)	
<u>14.1. UN number or ID number:</u>	UN 3146
14.2. UN proper shipping name:	ORGANOTIN COMPOUND, SOLID, N.O.S. (Trimethyltin-dopa-derivate)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	III
Hazard label:	6.1
Classification code:	Т3
Special Provisions:	43 274 802
Limited quantity:	5 kg
Excepted quantity:	E1
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 3146
14.2. UN proper shipping name:	ORGANOTIN COMPOUND, SOLID, N.O.S. (Trimethyltin-dopa-derivate)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	III
Hazard label:	6.1
Marine pollutant:	Р
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according to UK REACH Regulation

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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. (Trimethyltin-dopa-deri	vate)
14.3. Transport hazard class(es):	6.1	
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	
Other applicable information UN No.: 3146		

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

National regulatory information

3 - highly hazardous to water

SECTION 16: Other information

Water hazard class (D):

Relevant H and EUH statements (number and full text)

H3	301	Toxic if swallowed.
H3	312	Harmful in contact with skin.
H3	315	Causes skin irritation.
H3	319	Causes serious eye irritation.
H3	372	Causes damage to organs through prolonged or repeated exposure.
H4	100	Very toxic to aquatic life.
H4	110	Very toxic to aquatic life with long lasting effects.
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