

Safety Data Sheet

according to UK REACH Regulation

SynVesT-2 tin precursor

Revision date: 25.07.2024

Product code: 3430

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

SynVesT-2 tin precursor

Further trade names

(R)-1-((3-methylpyridin-4-yl)methyl)-4-(3-(trimethylstannyl)phenyl)pyrrolidin-2-one

Synonyme:

[18F]SynVesT-2 tin precursor; 2-Pyrrolidinone, 1-[(3-methyl-4-pyridinyl)methyl]-4-[3-(trimethylstannyl)phenyl]-, (4R)-; SynVesT-2 precursor; SDM-2 precursor

Substance name: SynVesT-2 tin precursor

CAS No: 2687893-70-3

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

Precursor for [18F]SynVesT-2

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	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 number:

+49 3528 4041 60

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Acute Tox. 2; H330

Acute Tox. 3; H311

Acute Tox. 3; H301

Aquatic Chronic 2; H411

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.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H372

Causes damage to organs through prolonged or repeated exposure.

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H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P270 Do not eat, drink or smoke when using this product.
 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.
 P330 Rinse mouth.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P362 Take off contaminated clothing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P314 Get medical advice/attention if you feel unwell.
 P391 Collect spillage.

2.3. Other hazards

Warning - substance not yet tested completely.

SECTION 3: Composition/information on ingredients**3.1. Substances****Chemical characterization**

(R)-1-((3-methylpyridin-4-yl)methyl)-4-(3-(trimethylstannyl)phenyl)pyrrolidin-2-one

Sum formula: C₂₀H₂₆N₂OSn

Molecular weight: 429.15 g/mol

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
2687893-70-3	SynVesT-2 tin precursor			95 - < 100 %
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Aquatic Chronic 2; H330 H311 H301 H411			

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		
2687893-70-3		SynVesT-2 tin precursor	95 - < 100 %
	inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg		

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

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After ingestion

If swallowed, immediately drink: Water.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO₂). Atomized water.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

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

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Further information on storage conditions

Recommended storage temperature:

of °C: -15

up to °C: -25

Protect against: Light.

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.

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Single-use gloves. NBR (Nitrile rubber).

Skin protection

Lab apron. Chemical resistant safety shoes.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: whitish
Colour: solid
Solubility in other solvents
Dichloromethane: , Methanol , Dimethylsulfoxide (DMSO)

SECTION 10: Stability and reactivity**10.4. Conditions to avoid**

Light.

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**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2687893-70-3	SynVesT-2 tin precursor				
	oral	ATE 100 mg/kg			
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation dust/mist	ATE 0,05 mg/l			

11.2. Information on other hazards**Further information**

Toxicological data are not available.

SECTION 12: Ecological information**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 to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains.

List of Wastes Code - residues/unused products

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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

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

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by 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.
14.3. Transport hazard class(es): 6.1
14.4. Packing group: III
Hazard label: 6.1
Classification code: T3
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)

14.1. UN number or ID number: UN 3146
14.2. UN proper shipping name: ORGANOTIN COMPOUND, SOLID, N.O.S.
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)

14.1. UN number or ID number: UN 3146
14.2. UN proper shipping name: ORGANOTIN COMPOUND, SOLID, N.O.S.
14.3. Transport hazard class(es): 6.1
14.4. Packing group: III
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

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

Hazchem code: 2X

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 3

National regulatory information

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

SECTION 16: Other information**Abbreviations and acronyms**

Acute Tox: Acute toxicity

Aquatic Chronic: Chronic aquatic hazard

Relevant H and EUH statements (number and full text)

H301 Toxic if swallowed.

H311 Toxic 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.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.