

according to Regulation (EC) No 1907/2006

(Boc-L-Sec)2

Revision date: 19.10.2022

Product code: BAA3680

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

1.1. Product identifier

(Boc-L-Sec)2

Further trade names

N-alpha-t-Butyloxycarbonyl-L-selenocystine Boc-L-Selenocystine Boc-Selenocystine (Boc-Sec-OH)2 (2R,2'R)-3,3'-diselanediylbis(2-(t-butoxycarbonylamino)propanoic acid) (2R,2'R)-3,3'-diselanediylbis(2-((tert-butoxycarbonyl)amino)propanoic acid) (Boc-Sec)2 Substance name: CAS No: Boc-L-Selenocystine 877754-71-7

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

Use of the substance/mixture

Laboratory chemical. Manufacture of the substance.

Uses advised against

Do not use for private purposes (household). Restrictions on use: Pharmaceutical substance

1.3. Details of the supplier of the safety data sheet

1.5. Details of the supplier of the s	Salety uata Sheet	
Company name:	Iris Biotech GmbH	
Street:	Adalbert-Zoellner-Straße 1	
Place:	D-95615 Marktredwitz, Germany	
Post-office box:	568	
	D-95605 Marktredwitz, Germany	
Telephone:	+49 9231 97121 0	Telefax: +49 9231 97121 99
e-mail:	info@iris-biotech.de	
Contact person:	Compliance Department	Telephone: +49 9231 97121 0
e-mail:	sds@iris-biotech.de	
Internet:	www.iris-biotech.de	
Responsible Department:	Only available during office hours.	
1.4. Emergency telephone	+49 (0)89 19240 (POISON CENTER	R Munich: 24 h)
_		

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute Tox. 3; H331 Acute Tox. 3; H301 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Danger



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Pictograms:

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Hazard statements

H301+H331	Toxic if swallowed or if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

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P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311	Call a POISON CENTER/doctor.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved disposal site.

Additional advice on labelling

Warning - substance not yet tested completely.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Pictograms:



Hazard statements

H301+H331

Precautionary statements

P264-P301+P310-P304+P340-P311-P403+P233-P405-P501

2.3. Other hazards

Product is not dust explosive in its original delivery form. The addition of particulate matter, however, results in a dust explosion risk.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization (2R,2'R)-3,3'-diselanediylbis	s(2-(t-butoxycarbonylamino)propanoic acid)
Sum formula:	C16H28N2O8Se2
Molecular weight:	534,35 g/mol



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Hazardous components

CAS No	Chemical name				Quantity
	EC No	Index No		REACH No	
	Classification (Regulation (EC) No	1272/2008)			
877754-71-7	Boc-L-Selenocystine				100 %
	Acute Tox. 3, Acute Tox. 3, STOT F H400 H410	RE 2, Aquatic Acute 1,	Aquatic Chron	ic 1; H331 H301 H373	

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

Specific Cond	c. Limits, M-fac	tors and ATE	
CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
877754-71-7		Boc-L-Selenocystine	100 %
	inhalation: ATE 100 mg/kg	= 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); oral: ATE =	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately. Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

After contact with skin

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary. After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist. If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Induce vomiting when the affected person is not unconscious. Call a physician immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray. alcohol resistant foam. Dry extinguishing powder. Sand.



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Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx). Selenium/Selenium oxides. Hydrogen selenide.

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Usual measures for fire prevention.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

Wear personal protection equipment.

In case of fire: Evacuate area.

For non-emergency personnel

Take up carefully when dry.

For emergency responders

Take up mechanically, placing in appropriate containers for disposal. Take up dust-free and set down dust-free.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For cleaning up

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

Other information

Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clear contaminated areas thoroughly.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

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 safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust. Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.



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Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep container tightly closed in a cool, well-ventilated place.

Handle and store contents under inert gas. Protect from moisture.

storage temperature: +2°C - +8°C

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin protection

Use of protective clothing.



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Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls

Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

3.1. Information on basic physical and che	anical properties
Physical state:	solid
Colour:	whitish/ light yellow
Odour:	No data available
Odour threshold:	not determined
Melting point/freezing point:	not determined
Boiling point or initial boiling point and	not determined
boiling range:	
Flammability	
Solid/liquid:	not determined
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	No data available
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not applicable
Water solubility:	No data available
Solubility in other solvents	
not determined	
Dissolution rate:	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density:	not determined
Bulk density:	not determined
Relative vapour density:	not determined
9.2. Other information	
Information with regard to physical haz	ard classes
Explosive properties	
	t is not dust explosive in its original delivery form. The addition of
particulate matter, however, results in	•
Sustaining combustion:	No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate: Solvent content: not determined No data available



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Solid content:	not determined
Sublimation point:	not determined
Softening point:	not determined
Viscosity / dynamic:	not applicable
Flow time:	not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Protect from moisture. Keep away from heat.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx). Selenium/Selenium oxides. Hydrogen selenide.

Further information

In case of fire: See chapter 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Toxic if swallowed.

Toxic if inhaled.

CAS No	Chemical name	_				
	Exposure route	Dose		Species	Source	Method
877754-71-7	Boc-L-Selenocystine					
		ATE mg/kg	100			
	inhalation vapour	ATE	3 mg/l			
	inhalation dust/mist	ATE	0,5 mg/l			

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Boc-L-Selenocystine)

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available

Practical experience

No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Further information

RTECS: No data available Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Warning - substance not yet tested completely.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

Consult the appropriate local waste disposal expert about waste disposal.

Handle contaminated packages in the same way as the substance itself.

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated



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packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)	
14.1. UN number or ID number:	UN 3283
14.2. UN proper shipping name:	SELENIUM COMPOUND, SOLID, N.O.S. (Boc-L-Selenocystine)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	II
Hazard label:	6.1
	6
Classification code:	T5
Special Provisions:	274 563
Limited quantity:	500 g
Excepted quantity:	E4
Transport category:	2
Hazard No:	60
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 3283
14.2. UN proper shipping name:	SELENIUM COMPOUND, SOLID, N.O.S. (Boc-L-Selenocystine)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	II
Hazard label:	6.1
	6
Classification code:	T5
Special Provisions:	274 563 802
Limited quantity:	500 g
Excepted quantity:	E4
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 3283
14.2. UN proper shipping name:	SELENIUM COMPOUND, SOLID, N.O.S. (Boc-L-Selenocystine)
<u>14.3. Transport hazard class(es):</u>	6.1
14.4. Packing group:	II
Hazard label:	6.1
	6
Special Provisions:	274
Limited quantity:	500 g
Excepted quantity:	E4
EmS:	F-A, S-A
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	UN 3283
14.2. UN proper shipping name:	SELENIUM COMPOUND, SOLID, N.O.S. (Boc-L-Selenocystine)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	II



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Hazard label:	6.1	
	×	
	6	
Special Provisions:	A3 A5	
Limited quantity Passenger:	1 kg	
Passenger LQ:	Y644 E4	
Excepted quantity: IATA-packing instructions - Passenger:	E4 669	
IATA-max. quantity - Passenger:	25 kg	
IATA-packing instructions - Cargo:	676	
IATA-max. quantity - Cargo:	100 kg	
14.5. Environmental hazards		~
ENVIRONMENTALLY HAZARDOUS:	Yes	¥
Danger releasing substance:	Boc-L-Selenocystine	\checkmark
14.6. Special precautions for user		
Warning: Acute Toxicity.		
	to IMO instruments	
14.7. Maritime transport in bulk according		
not applicable		
not applicable		
not applicable SECTION 15: Regulatory information		zo
SECTION 15: Regulatory information 15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixtu	r <u>e</u>
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not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental reg EU regulatory information Information according to 2012/18/EU (SEVESO III): Additional information: Additional information Safety Data Sheet according to Regu National regulatory information	ulations/legislation specific for the substance or mixtur H2 ACUTE TOXIC E1 Ilation (EC) No. 1907/2006 (REACH) Observe restrictions to employment for juveniles accor 'juvenile work protection guideline' (94/33/EC). Observ restrictions under the Maternity Protection Directive (9	rding to the /e employment
not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental reg EU regulatory information Information according to 2012/18/EU (SEVESO III): Additional information: Additional information Safety Data Sheet according to Regu National regulatory information Employment restrictions:	ulations/legislation specific for the substance or mixtur H2 ACUTE TOXIC E1 Ilation (EC) No. 1907/2006 (REACH) Observe restrictions to employment for juveniles accor 'juvenile work protection guideline' (94/33/EC). Observ restrictions under the Maternity Protection Directive (9 expectant or nursing mothers.	rding to the /e employment
not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental reg EU regulatory information Information according to 2012/18/EU (SEVESO III): Additional information: Additional information Safety Data Sheet according to Regu National regulatory information Employment restrictions: Water hazard class (D):	ulations/legislation specific for the substance or mixtur H2 ACUTE TOXIC E1 Ilation (EC) No. 1907/2006 (REACH) Observe restrictions to employment for juveniles accor 'juvenile work protection guideline' (94/33/EC). Observ restrictions under the Maternity Protection Directive (9	rding to the /e employment
not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental reg EU regulatory information Information according to 2012/18/EU (SEVESO III): Additional information Safety Data Sheet according to Regu National regulatory information Employment restrictions: Water hazard class (D): 15.2. Chemical safety assessment	ulations/legislation specific for the substance or mixtur H2 ACUTE TOXIC E1 Ilation (EC) No. 1907/2006 (REACH) Observe restrictions to employment for juveniles accor 'juvenile work protection guideline' (94/33/EC). Observ restrictions under the Maternity Protection Directive (9 expectant or nursing mothers.	rding to the /e employment
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(Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service



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LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Relevant H and EUH statements (number and full text) Toxic if swallowed H301 H301+H331 Toxic if swallowed or if inhaled. H331 Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure. H373 H400 Very toxic to aquatic life.

Further Information

H410

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Very toxic to aquatic life with long lasting effects.