

H-L-Cys(Trt)-OH

Revision date: 03.12.2018

Product code: HAA6160

Page 1 of 9

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

1.1. Product identifier

H-L-Cys(Trt)-OH

Further trade names

S-Trityl-L-cysteine S-(Triphenylmethyl)-L-cysteine (2R)-2-Amino-3-[(triphenylmethyl)thio]propanoic acid 3-Tritylthio-L-alanine CAS No: 2799-07-7 EC No: 608-157-2

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).

1.3. Details of the supplier of the safety data 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:

Further Information

Emergency telephone: 24 h

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Hazard categories: Acute toxicity: Acute Tox. 4 Hazard Statements: Harmful if swallowed.

2.2. Label elements

GB CLP Regulation

Signal word:

Pictograms:





Safety Data Sheet

according to UK REACH Regulation

H-L-Cys(Trt)-OH

Revision date: 03.12.2018

Product code: HAA6160

Page 2 of 9

Hazard statements

H302

Harmful if swallowed.

Precautionary statements

P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P501	Dispose of contents/container to an approved disposal site.

Additional advice on labelling

Warning - substance not yet tested completely.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization S-Trityl-L-cysteine	
Sum formula:	C22H21NO2S
Molecular weight:	363,48 g/mol

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
2799-07-7	H-L-Cys(Trt)-OH			<= 100 %
	608-157-2			
	Acute Tox. 4; H302			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name		
	Specific Conc. Limits, M-factors and ATE			
2799-07-7	608-157-2	H-L-Cys(Trt)-OH	<= 100 % %	
	oral: LD50 = 936 mg/kg			

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

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

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap.

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



Safety Data Sheet

according to UK REACH Regulation

H-L-Cys(Trt)-OH

Revision date: 03.12.2018

Product code: HAA6160

Page 3 of 9

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Medical treatment necessary. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

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. Carbon dioxide (CO2). Sand.

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). Sulfur oxides.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear a self-contained breathing apparatus and chemical protective clothing.

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 measures

Provide adequate ventilation. 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. Wear personal protection equipment. In case of fire: Evacuate area.

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

Other information

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



H-L-Cys(Trt)-OH

Revision date: 03.12.2018

Product code: HAA6160

Page 4 of 9

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 dust formation. 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.

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 or drink. Avoid contact with skin, eyes and clothes. Provide adequate ventilation. When using do not eat, drink or smoke. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep container tightly closed in a cool, well-ventilated place. Handle and store contents under inert gas. Protect from moisture. storage temperature: 2-8°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

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. Wear eye/face protection.

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.

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

Test method



Safety Data Sheet

according to UK REACH Regulation

H-L-Cys(Trt)-OH

Revision date: 03.12.2018

Product code: HAA6160

Page 5 of 9

mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing. Wear suitable protective clothing.

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.

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

Physical state:	solid
Colour:	white/ whitish
Odour:	No data available

Changes in the physical state

Changes in the physical state		
Melting point/freezing point:	182-183 °C	decomposition
Boiling point or initial boiling point and boiling range:	not determined	
Sublimation point:	not determined	
Softening point:	not determined	
Flash point:	No data available	
Flammability		
Solid/liquid:	not determined	
Gas:	not applicable	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Auto-ignition temperature:	No data available	
Self-ignition temperature		
Solid:	not determined	
Gas:	not applicable	
Decomposition temperature:	not determined	
Oxidizing properties No data available		
pH-Value:	not determined	
Water solubility:	not determined	
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not determined	
Density:	not determined	
Relative vapour density:	not determined	
9.2. Other information		
Information with regard to physical hazard classes		
Sustaining combustion:	No data available	



H-L-Cys(Trt)-OH

Revision date: 03.12.2018

Product code: HAA6160

not determined

not determined

Page 6 of 9

Other safety characteristics

Solid content:

Evaporation rate:

Further Information

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). Sulfur oxides.

Further information

In case of fire: See chapter 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Harmful if swallowed.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2799-07-7	H-L-Cys(Trt)-OH				
		LD50 936 mg/kg	Mouse.		

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.

STOT-single exposure

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



H-L-Cys(Trt)-OH

Revision date: 03.12.2018

Product code: HAA6160

Page 7 of 9

STOT-repeated exposure

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

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

Further information

RTECS: AY7710000

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

SECTION 12: Ecological information

12.1. Toxicity

No data available

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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

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

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

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Inland waterways transport (ADN) 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations. Marine transport (IMDG) No dangerous good in sense of these transport regulations.



Biotech		
	H-L-Cys(Trt)-OH	
Revision date: 03.12.2018	Product code: HAA6160	Page 8 of 9
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.	
Air transport (ICAO-TI/IATA-DGR)		
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	Νο	
14.6. Special precautions for user		
No information available. 14.7. Maritime transport in bulk according to	MO instruments	
not applicable		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture	
EU regulatory information		
Information according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)	
(SEVESO III):		
Additional information		
Safety Data Sheet according to Regula	tion (EC) No. 1907/2006 (REACH)	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	
Water hazard class (D):	3 - highly hazardous to water	
15.2. Chemical safety assessment		
For this substance a chemical safety as	ssessment has not been carried out.	
SECTION 16: Other information		
Abbreviations and acronyms		
ADR: Accord européen sur le transport	des marchandises dangereuses par Route	
(European Agreement concerning the I IMDG: International Maritime Code for I	nternational Carriage of Dangerous Goods by Road)	
IATA: International Air Transport Assoc	-	
GHS: Globally Harmonized System of C	Classification and Labelling of Chemicals	
EINECS: European Inventory of Existin		
ELINCS: European List of Notified Che CAS: Chemical Abstracts Service	mical Substances	
LC50: Lethal concentration, 50%		
LD50: Lethal dose, 50%		
Relevant H and EUH statements (number	and full text)	
H302 Harmful if swalld	owed.	
Further Information		
	t level of our knowledge. It does not however give assurance of	
The information is based on the presen		
product properties and establishes no c	contract legal rights. The receiver of our product is singularly	
product properties and establishes no c responsible for adhering to existing law	contract legal rights. The receiver of our product is singularly s and regulations. Warning - substance not yet tested completely.	
product properties and establishes no c responsible for adhering to existing law The product is intended for research, an	contract legal rights. The receiver of our product is singularly s and regulations. Warning - substance not yet tested completely.	
product properties and establishes no c responsible for adhering to existing law The product is intended for research, a The receiver of our product is singularly	contract legal rights. The receiver of our product is singularly s and regulations. Warning - substance not yet tested completely. nalysis and scientific education. / responsible for adhering to existing laws and regulations. t level of our knowledge. It does not, however, give assurance of	

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be



Safety Data Sheet

according to UK REACH Regulation

H-L-Cys(Trt)-OH

Revision date: 03.12.2018

Product code: HAA6160

Page 9 of 9

transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.