according to UK REACH Regulation

## H-alpha-Me-L-Cys-OH HCI

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

## 1.1. Product identifier

H-alpha-Me-L-Cys-OH HCl

## Further trade names

(R)-2-Amino-3-mercapto-2-methylpropionic acid hydrochloride
(R)-L-alpha-Methylcysteine
alpha-Methyl-D-cysteine hydrochloride
CAS No: 148766-37-4

## 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

Iris Biotech GmbH	
Adalbert-Zoellner-Straße 1	
D-95615 Marktredwitz, Germany	
568	
D-95605 Marktredwitz, Germany	
+49 9231 97121 0	Telefax: +49 9231 97121 99
info@iris-biotech.de	
Compliance Department	Telephone: +49 9231 97121 0
sds@iris-biotech.de	
www.iris-biotech.de	
Only available during office hours.	
+49 (0)89 19240 (POISON CENTER M	lunich: 24 h)
	Adalbert-Zoellner-Straße 1 D-95615 Marktredwitz, Germany 568 D-95605 Marktredwitz, Germany +49 9231 97121 0 info@iris-biotech.de Compliance Department sds@iris-biotech.de www.iris-biotech.de Only available during office hours.

#### number:

#### Further Information

Emergency telephone: 24 h

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation.

#### 2.2. Label elements

### GB CLP Regulation

Signal word:

Warning



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**Pictograms:** 

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## Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
IF ON SKIN: Wash with plenty of Water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
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**

(R)-2-Amino-3-mercapto-2-methylpropionic acid hydrochloride	
Sum formula:	C4H9NO2S*HCI
Molecular weight:	135,18*36,45 g/mol

## Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
148766-37-4	H-alpha-Me-L-Cys-OH HCl		100 %	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3	H315 H319 H335		

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

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures



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## **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. Medical treatment necessary. 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

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. 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.

#### After ingestion

Rinse mouth immediately and drink plenty of water. 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). Hydrogen chloride (HCI).

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### 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 breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. In case of fire: Evacuate area.



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## 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. 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. 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 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. Photosensitive. storage temperature: +2°C - +8°C

### Hints on joint storage

No special measures are necessary.

### Further information on storage conditions

Protect from light!

## 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



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#### 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

Suitable eye protection: goggles. 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 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/ yellowish	
Odour:	No data available	
Changes in the physical state		
Melting point/freezing point:		120 - 121 °C
Boiling point or initial boiling point and		not determined
boiling range:		
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
Flash point:		not applicable
Flammability		
Solid/liquid:		not determined
Gas:		not applicable
Explosive properties		
No data available		
Lower explosion limits:		not determined
Upper explosion limits:		not determined



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Auto-ignition temperature:	No data available		
Self-ignition temperature			
Solid:	not determined		
Gas:	not applicable		
Decomposition temperature:	not determined		
Oxidizing properties Not oxidising.			
pH-Value:	not determined		
Water solubility:	The product is water soluble.		
Solubility in other solvents not determined			
Partition coefficient n-octanol/water:	not determined		
Vapour pressure:	not determined		
Density:	not determined		
Bulk density:	ca. 400 kg/m³		
Relative vapour density:	not determined		
.2. Other information			
Information with regard to physical hazard	classes		
Sustaining combustion:	No data available		
Other safety characteristics			
Solid content:	not determined		
Evaporation rate:	not determined		
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

Hazardous polymerisation: Polymerization will not occur.

## 10.4. Conditions to avoid

Protect from moisture. Keep away from heat. Protect from light!

## 10.5. Incompatible materials

Oxidizing agents, strong. Strong acid strong alkalis

## 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). Hydrogen chloride (HCI).

## **Further information**

In case of fire: See chapter 5.

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## 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

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

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### 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

May cause respiratory irritation. (H-alpha-Me-L-Cys-OH HCl)

#### 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: No data available

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.



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## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

## **Disposal recommendations**

Dispose of waste according to applicable legislation. 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)	
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:	No
14.6. Special precautions for user	

#### No information available.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## **SECTION 15: Regulatory information**

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

EU regulatory information	
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)
Additional information	
Safety Data Sheet according to Regu	lation (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	assessment 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 International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods



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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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

## Relevant H and EUH statements (number and full text)

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

#### **Further Information**

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. Warning - substance not yet tested completely. The product is intended for research, analysis and scientific education.

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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 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.