

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

CYSTEINUM

EN

FORM-06-14-01 (V00)

Page 1/9

Publication: 18/03/2022

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Version: 01



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Cysteine
Cysteinum
Cysteïne
Cystéine
Cystein

N° CAS: 52-90-4

N° EC: 200-158-2

1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses: Active Pharmaceutical Ingredient or Excipient.

1.3 Details of the supplier of the safety data sheet

Company: Magis-Pharma NV
Neerlandweg 24
2610 Wilrijk
Belgium

Telephone: (+32) (0)3 457 11 76

Email: info@magis-pharma.be

Web page: www.magis-pharma.be

1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

Acute Tox. 4	H302
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Attention

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 2/9

Publication: 18/03/2022

Revision: 24/07/2024

Version: 01



CYSTEINUM

Hazard statements:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements:

P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P312	Call a POISON CENTER/ doctor/.../if you feel unwell.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.
Additional applicable label elements:	Not applicable.

2.3 Other hazards

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name:	Cysteine
IUPAC name:	(2R)-2-Amino-3-sulfanylpropanoic acid
Synonyms:	L-Cysteine Thioserine
N° CAS:	52-90-4
N° EC:	200-158-2

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

CYSTEINUM

EN

FORM-06-14-01 (V00)

Page 3/9

Publication: 18/03/2022

Revision: 24/07/2024

Version: 01



Molecular Formula: $C_3H_7NO_2S$
Content: 98.0 per cent to 101.0 per cent (dried substance).

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms continue, call a POISON CENTER or doctor/physician.

After skin contact: In case of skin irritation or discomfort, stop using the product. Rinse skin with water/shower. If symptoms continue, call a POISON CENTER or doctor/physician.

After eye contact: Rinse cautiously with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms continue, call a POISON CENTER or doctor/physician.

After ingestion: Rinse mouth. Get immediate medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Not available.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Powder, fire foam, water mist or carbon dioxide.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance/mixture

Avoid contact with water or oxidants.

5.3 Advice for firefighters

Surrounding fires: Take action from windward. Non-responsible personnel should escape from the fire site. Move container to a safe area.

Protection against fire: Fire fighters should wear appropriate personal protective equipment.

Hazardous combustion products: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

CYSTEINUM

EN

FORM-06-14-01 (V00)

Page 4/9

Publication: 18/03/2022

Revision: 24/07/2024

Version: 01



Off-limit for non-responsible personnel. Wear appropriate personal protective equipment described in section 8 so as to prevent inhalation and exposure of eyes or skin.

For emergency responders

Off-limit for non-responsible personnel. Wear appropriate personal protective equipment described in section 8 so as to prevent inhalation and exposure of eyes or skin.

6.2 Environmental precautions

Avoid release directly into the environment because the product may cause local effects.

6.3 Methods and material for containment and cleaning up

Stop leakage if it is not dangerous to do.

6.4 Reference to other sections

Personal protection: see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling:	Take necessary measures described in section 8. Do not eat, drink or smoke when using this product.
Personal protection:	Not available.
Technical protective measures:	Not available.
Handling:	Wash hands thoroughly after handling. Wash contaminated work clothing before use.

7.2 Conditions for safe storage, including any incompatibilities

Storage:	Store in a well-closed container. Use a sealed container without damage or leakage.
Conditions for safe storage, including any incompatibilities:	Store in a cool and well-ventilated place.
Storage – away from:	Store protected from light. Strong oxidisers. Humidity and high temperature.

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Not available.

8.2 Exposure controls

Appropriate engineering control

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

CYSTEINUM

EN

FORM-06-14-01 (V00)

Page 5/9

Publication: 18/03/2022

Revision: 24/07/2024

Version: 01



Not available.

Individual protection measures

Eye/face protection:	Wear protective glasses or goggles as required.
Skin protection:	Use safety protective clothing and apron as required.
Hand protection:	Wear protective gloves as appropriate.
Respiratory protection:	Wear hazard mask and/or respiratory protection if necessary.
Thermal hazards:	Not determined.

Environmental exposure control

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	White, crystalline powder or colourless crystals.
Odour:	Characteristic.
Odour threshold:	Not available.
pH:	4.5 - 5.7 (1.25 g in 50 mL of H ₂ O)
Melting/freezing point:	178 °C
Initial boiling point:	Not available.
Boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	Not available.
Solubility:	Easily soluble in ethanol, practically insoluble in ether.
Solubility in water:	Easily soluble in water. 16 g/100 g H ₂ O (20 °C)
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidising properties:	Not available.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

CYSTEINUM

EN

FORM-06-14-01 (V00)

Page 6/9

Publication: 18/03/2022

Revision: 24/07/2024

Version: 01



9.2 Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

See section 10.4.

10.2 Chemical stability

This substance is considered to be a non-reactive material under normal conditions.

10.3 Possibility of hazardous reactions

Possible risk of dust explosion depending on condition.

10.4 Conditions to avoid

Sunlight, high humidity, dispersion of dust.

10.5 Incompatible materials

Oxidising agents, strong acids, strong alkali.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxides, etc. may be generated.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Oral LD50 (rat): 1.89 g/kg
Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory/skin sensitisation:	Not available.
Germ cell mutagenicity:	Not available.
Carcinogenicity:	Not available.
Reproductive toxicity:	Not available.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	Not available.
Aspiration Hazard:	Not available.
Other:	Not available.

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	Causes serious eye irritation.
Skin contact:	Causes skin irritation.
Inhalation:	May cause respiratory irritation.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

CYSTEINUM

EN

FORM-06-14-01 (V00)

Page 7/9

Publication: 18/03/2022

Revision: 24/07/2024

Version: 01



Ingestion: Harmful if swallowed.

Aspiration: Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not available.

12.2 Persistence and degradability

BOD = 0.93 g/g

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of waste or containers in accordance with applicable local, regional and international regulations and standards. Dispose of consulting to a certificated waste trader or local offices if they deal with the waste. Containers are to be disposed of in accordance with related laws and regulations. Containers should completely be cleaned up before disposal.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.4 Packing group

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

CYSTEINUM

EN

FORM-06-14-01 (V00)

Page 8/9

Publication: 18/03/2022

Revision: 24/07/2024

Version: 01



ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.6 Special precautions for user

When transporting, confirm no damage to containers. Avoid handling violently or getting wet. Load to prevent fall or falling down containers and take preventive measures of collapse.

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

14.8 Additional transport information

Not classified as dangerous.

SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Risk phrases:

R22 Harmful if swallowed.

R36/R37/R38 Irritating to eyes, respiratory system and skin.

Safety phrases:

S7/9 Keep container tightly closed in a well-ventilated place.

S20/21 When using do not eat, drink or smoke.

S23 Do not breathe dust/fumes/gas/mist/vapours/spray.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S27 Take off immediately all contaminated clothing.

S28 After contact with skin, wash immediately with plenty of water.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

S51 Use only in well-ventilated areas.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

CYSTEINUM

EN

FORM-06-14-01 (V00)

Page 9/9

Publication: 18/03/2022

Revision: 24/07/2024

Version: 01



ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

16.4 Method of classification in case of mixture

Not applicable.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available.

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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16.8 Department issuing MSDS

Quality Department

FAC SECUNDUM ARTEM NV

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

CYSTEINUM

EN

FORM-06-14-01 (V00)

Page 10/9

Publication: 18/03/2022

Revision: 24/07/2024

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