

Material Safety Data Sheet

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Product name: L-Homocysteine

Product Number: AS18497-2S

CAS No.: 6027-13-0

REACH Registration No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

IDENTIFIED USES: LABORATORY CHEMICALS, MANUFACTURE OF CHEMICAL PRODUCTS

1.3. Details of the supplier of the safety data sheet

Manufacturer: Activate Scientific GmbH, Am Mitterweg 12, D-83209 Prien, Germany

Telephone: +49-(0)8051-9651660

1.4. Emergency telephone number

Emergency Phone EU: +49-(0)551-383180

Emergency Phone UK: +44-(0)1747 833100

Transport Emergency US & CD: 800-451-8346 (or 1-800-CHEMCALL)

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Hazardous to the aquatic environment, long-term hazard Category 1 (H410)

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008



Signalword Warning

Hazard statement(s)

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P273 - Avoid release to the environment.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Product Number: AS18497-2S

Substance Name: L-Homocysteine

CAS: 6027-13-0

Formula: C₄H₉NO₂S

MW: 135.18

Component	Classification	Structure	Concentration
L-Homocysteine	Hazardous to the aquatic environment, long-term hazard Category 1 (H410)		<= 100%

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

No data available

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5 - FIREFIGHTING MEASURES

5.1 Extinguishing media

No data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides

5.3 Advice for fire-fighters

No data available

5.4 Further information

No data available

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8

6.2 Environmental precautions

No data available

6.3 Methods and materials for containment and cleaning up

No data available

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed Containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Storage Temperature:

2-7°C Refrigerate

7.3 Specific end uses

No data available

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection 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.

Body Protection impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection For nuisance exposures use a full-face particle respirator type N100 (US) or type P3 (EU EN 143). For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance/Form: solid Colour: clear

b) Odour: No data available

c) Melting point/freezing point range: No data available

d) Initial boiling point and boiling range: No data available

e) Flash point: No data available

f) Flammability (solid, gas): No data available

g) Upper/lower flammability/ explosive limits: No data available

h) Auto ignition temperature: No data available

i) Explosive properties: No data available

j) Oxidizing properties: No data available

9.2 Other safety information

No data available

SECTION 10 - STABILITY AND REACTIVITY

- 10.1 Reactivity** No data available
10.2 Chemical stability No data available
10.3 Possibility of hazardous reactions No data available
10.4 Conditions to avoid No data available
10.5 Incompatible materials Strong oxidizing agents.
10.6 Hazardous decomposition products In the event of fire: see section 5

SECTION 11 - TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
Acute toxicity LD50 Oral □ Rat □ 1.020 mg/kg
Skin corrosion/irritation No data available
Serious eye damage/eye irritation No data available
Respiratory or skin sensitization No data available
Germ cell mutagenicity No data available
Carcinogenicity IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as Probable- possible or confirmed human carcinogen by IARC.
Reproductive toxicity No data available
Specific target organ toxicity - single exposure No data available
Specific target organ toxicity - repeated exposure No data available
Aspiration hazard No data available
Potential health effects
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion: May be harmful if swallowed.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes serious eye irritation.
Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information RTECS: Not available

SECTION 12 - ECOLOGICAL INFORMATION

- 12.1 Toxicity**
Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0,8 mg/l - 96,0 h
Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 4,4 mg/l - 48 h
12.2 Persistence and degradability No data available
12.3 Bio accumulative potential No data available
12.4 Mobility in soil No data available
12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher.
12.6 Other adverse effects No data available

SECTION 14: Transport information

- 14.1. UN number or ID number**
ADR/RID: 3077 IMDG: 9 IATA: III
14.2. UN proper shipping name
ADR/RID: 3077 IMDG: 9 IATA: III
14.3. Transport hazard class(es)
ADR/RID: 3077 IMDG: 9 IATA: III
14.4. Packing group
ADR/RID: 3077 IMDG: 9 IATA: III
14.5. Environmental hazards
ADR/RID: No IMDG Marine Pollutant : No IATA: No
14.6. Special precautions for user
No Data Available

SECTION 15 - REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No data available
15.2 Chemical Safety Assessment No data available

SECTION 16 - OTHER INFORMATION

- DISCLAIMER FOR R&D USE ONLY- NOT FOR DRUG, HOUSEHOLD OR OTHER USES**
Hazard statement(s)
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P273 - Avoid release to the environment.

WARRANTY The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Activate Scientific GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Revision Date 22.05.2023