

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 1  
GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

Revision Date 21 June 2022

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

### 1.1 Product identifiers

Product name : Galanthamine  
Product number : CUNI-Galanthamine  
REACH 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.  
CAS No. : 357-70-0

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

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Company : Charles University Innovations Prague a.s.  
Address : Petráská 1180/3, 110 00 Prague 1, CZ  
Telephone : +420 224 491 928  
E-mail address : info@cuiip.cz

### 1.4 Emergency telephone number

Emergency Phone number : +420 228 880 039 (CHEMTREC)  
+420 224 919 293 / 224 915 402  
(Toxikologické informační středisko)

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 3), H301, H331  
Acute toxicity, Inhalation (Category 3), H301, H331  
Skin corrosion/irritation (Category 2), H315  
Skin sensitisation (Category 1), H317  
Serious eye damage/eye irritation (Category 2), H319  
Specific target organ toxicity, Repeated exposure (Category 2), H373  
Hazardous to the aquatic environment, Acute aquatic hazard (Category 1), H400  
Hazardous to the aquatic environment, Long-term aquatic hazard (Category 1), H410  
For the full text of the H-Statements and P-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

## Labelling according to Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H301

Toxic if swallowed.

H331

Toxic if inhaled.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H373

May cause damage to organs through prolonged or repeated exposure.

H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P262

Do not get in eyes, on skin, or on clothing.

P264

Wash skin thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P501

Dispose of contents/container to an approved waste disposal plant.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Molecular weight	:	287.359 g/mol
CAS No.	:	357-70-0
Component	:	Galanthamine
Classification	:	Acute Tox. 3; H301, H331 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Concentration	:	≥ 98 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

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Product name: **Galanthamine**

#### 4.1 Description of first aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### If inhaled

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

##### In case of skin contact

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

##### In case of eye contact

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

##### If swallowed

Wash out mouth with water provided person is conscious. Call a physician.

##### Hints for Physician

Treat symptomatically.

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

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

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

No data available

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment, and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see Section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

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.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see Section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in the fridge at temperatures below 4 °C. Close container well. Keep away from incompatible substances. Keep container tightly closed when not in use.

### 7.3 Specific end use(s)

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

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Components with workplace control parameters

None

### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

Eye / face protection	Face shield and safety glasses 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.
Full contact	Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)
Splash contact	Material: Nitrile rubber

Minimum layer thickness: 0.11 mm  
 Break through time: 480 min  
 Material tested: Dermatril® (KCL 740 / Aldrich Z677272,  
 Size M)  
 data source: KCL GmbH, D-36124 Eichenzell, phone  
 +49(0)6659 87300, e-mail sales@kcl.de, test method: EN374  
 If used in solution, or mixed with other substances, and under  
 conditions which differ from EN 374, contact the supplier of  
 the CE approved gloves. This recommendation is advisory  
 only and must be evaluated by an industrial hygienist and  
 safety officer familiar with the specific situation of  
 anticipated use by our customers. It should not be construed  
 as offering an approval for any specific use scenario.

Body Protection Complete suit protecting against chemicals. The type of  
 protective equipment must be selected according to the  
 concentration and amount of the dangerous substance at the  
 specific workplace.

Respiratory protection Where risk assessment shows air-purifying respirators are  
 appropriate use a full- face particle respirator type N99 (US)  
 or type P2 (EN 143) 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).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: solid, crystalline Colour: white-beige
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	270 °C
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available

k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

## 9.2 Other safety information

No data available

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## 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

Avoid moisture.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

In the event of fire: see Section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral – Rat – 75 mg/kg Remarks: (RTECS)

#### Skin corrosion / irritation

No data available

#### Serious eye damage / eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

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.

**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

**Additional Information**

RTECS: DF8075000

Cholinesterase inhibitors can cause heavy salivation and secretion in the lungs, lachrymation, blurred vision, involuntary defecation, diarrhea, tremor, ataxia, sweating, hypothermia, lowered heart rate, and/or a fall in blood pressure as a result of their action at cholinergic nerve sites, confusion, hallucinations. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 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.

### 12.6 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: 1544  
IMDG: 1544  
IATA: 1544

### 14.2 UN proper shipping name

ADR/RID: ALKALOIDS, SOLID, N.O.S. (Galanthamine)  
IMDG: ALKALOIDS, SOLID, N.O.S. (Galanthamine)  
IATA: Alkaloids, Solid, n.o.s. (Galanthamine)

### 14.3 Transport hazard class(es)

ADR/RID: 6.1  
IMDG: 6.1  
IATA: 6.1

### 14.4 Packaging group

ADR/RID: III  
IMDG: III  
IATA: III

### 14.5 Environmental hazards

ADR/RID: no  
IMDG: Marine pollutant: no  
IATA: no

### 14.6 Special precautions for user

No data available

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## SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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## SECTION 16: Other information

### Full text of H-Statements and P-Statements referred to under Sections 2 and 3.

H301	Toxic if swallowed.
H331	Toxic if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.



H410	Very toxic to aquatic life with long lasting effects.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container to an approved waste disposal plant.

**Further information**

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.