



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 03/04/2023 Version: 1.0

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

1.1. Product identifier	
Product form Substance name Chemical name EC Index-No. EC-No. CAS-No. Product code	<ul> <li>Substance</li> <li>Strychnine</li> <li>strychnine</li> <li>614-003-00-5</li> <li>200-319-7</li> <li>57-24-9</li> <li>201601067</li> </ul>
1.2. Relevant identified uses of the	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category Use of the substance/mixture Function or use category	<ul> <li>The product is intended for research, analysis and scientific education.</li> <li>For professional use only</li> <li>Laboratory chemicals</li> </ul>
1.2.2. Uses advised against	
Restrictions on use	: Do not use : Ingestion, Inhalation, Dermal
1.3. Details of the supplier of the sa	afety data sheet
European Directorate for the Quality of Me EDQM, Council of Europe 7, Allée Kastner F– 67081 Strasbourg France T +33(0)388412035 - F +33(0)388412771 sds@edqm.eu - www.edqm.eu	
<b>1.4. Emergency telephone number</b>	

Emergency number

: +33(0)390215608

## **SECTION 2: Hazards identification**

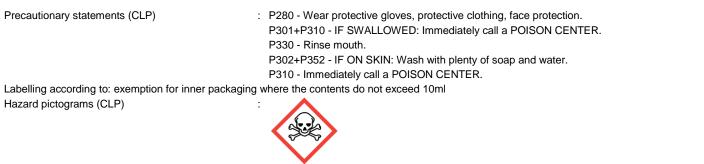
# 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] H310 Acute toxicity (dermal), Category 1 Acute toxicity (oral), Category 2 H300 Hazardous to the aquatic environment - Acute Hazard, Category 1 H400 Hazardous to the aquatic environment - Chronic Hazard, Category 1 H410 Full text of H- and EUH-statements: see section 16 Adverse physicochemical, human health and environmental effects Expert judgement and weight of evidence determination. 2.2. Label elements La Ha Sig Ha

abelling according to Regulation (EC) No. 1	272/2008 [CLP]
azard pictograms (CLP)	
	GHS06 GHS09
ignal word (CLP)	: Danger
azard statements (CLP)	: H310 - Fatal in contact with skin. H300 - Fatal if swallowed.

H410 - Very toxic to aquatic life with long lasting effects.

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#### GHS06

#### 2.3. Other hazards

#### No additional information available

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
strychnine	CAS-No.: 57-24-9 EC-No.: 200-319-7 EC Index-No.: 614-003-00-5	≤ 100	Acute Tox. 1 (Dermal), H310 (ATE=5 mg/kg bodyweight) Acute Tox. 2 (Oral), H300 (ATE=2,35 mg/kg bodyweight) Aquatic Acute 1, H400 Aquatic Chronic 1, H410

#### Full text of H- and EUH-statements: see section 16

#### 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

4.1. Description of first aid measures	
First-aid measures after inhalation	: Move to fresh air. Allow affected person to breathe fresh air.
First-aid measures after skin contact	: Wipe off as much as possible (using a clean, soft, absorbent material). Wash with plenty of water/
First-aid measures after eye contact	: Rinse with water while holding the eyes wide open.
First-aid measures after ingestion	: Rinse mouth.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/effects after inhalation	: Insufficient data available.
Symptoms/effects after skin contact	: Insufficient data available.
Symptoms/effects after eye contact	: Insufficient data available.

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

Get medical advice/attention. If possible show this sheet, if not available show packaging or label.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Extinguishing blanket.

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5.2. Special hazards arising from the s	substance or mixture
Fire hazard	: See Heading 2.2.
5.3. Advice for firefighters	
Firefighting instructions	: Use extinguishing media appropriate for surrounding fire.
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Avoid any direct contact with the product. Do not breathe dust/fume/gas/mist/vapours/spray.
6.1.1. For non-emergency personnel	
No additional information available	
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	: Ensure waste is collected and contained. Clean thoroughly.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	

in the bare handling	
Additional hazards when processed	: The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.
Precautions for safe handling	: Material should be handled with caution. Avoid any direct contact with the product.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures.
7.2. Conditions for safe storage, including a	ny incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Store locked up.

7.3. Specific end use(s)

See Heading 1.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

### 8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

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#### 8.1.5. Control banding

No additional information available

**8.2. Exposure controls** 

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Keep in a well-ventilated room. Use only in a exhaust booth with integrated air filter. High efficiency particulate air filter (HEPA filter).

#### 8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection: Safety glasses. DIN EN 166

#### 8.2.2.2. Skin protection

Skin and body protection: Use chemically protective clothing. DIN EN 13034

# Hand protection:

Chemically resistant protective gloves. ISO 374-1

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

Dust production: dust mask with filter type P3. DIN EN 140 & 149. Liquid product : Aerosol mask. Wear breathing apparatus if exposed to vapours/dusts/aerosols

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state		Solid
Colour	•	Not available
Appearance		Powder.
Odour		Not applicable.
Odour threshold		Not available
Melting point		284 – 286 °C
Freezing point		Not available
Boiling point		Not available
Flammability	÷	Not available
Explosive limits	:	Not applicable
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
pH	:	Not available
pH solution	:	Not available
Viscosity, kinematic	:	Not applicable
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Partition coefficient n-octanol/water (Log Pow)	:	1,9 at 20°C
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	Not available
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Relative vapour density at 20°C	
Particle size	

Not applicableNot available

9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

**10.2. Chemical stability** 

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

**10.4. Conditions to avoid** 

No additional information available

**10.5. Incompatible materials** 

None under normal use. See Section 7.

**10.6. Hazardous decomposition products** 

When heated to decomposition, emits dangerous fumes.

## **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (E
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#### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general

: Hazardous waste. Use suitable disposal containers.

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Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
	: Very toxic to aquatic life with long lasting effects.
strychnine (57-24-9)	
LC50 - Fish [1]	0,87 mg/l LC50-96 Hour - fish
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
strychnine (57-24-9)	
Partition coefficient n-octanol/water (Log Pow)	1,9 at 20°C
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)

: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information		
n accordance with ADR / IMDG / IATA		
ADR	IMDG	ΙΑΤΑ
14.1. UN number or ID number		
UN 1692	UN 1692	UN 1692
14.2. UN proper shipping name		
STRYCHNINE	STRYCHNINE	Strychnine
Transport document description		
UN 1692 STRYCHNINE, 6.1, I, (C/E), ENVIRONMENTALLY HAZARDOUS	UN 1692 STRYCHNINE, 6.1, I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1692 Strychnine, 6.1, I, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)		
6.1	6.1	6.1

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ADR	IMDG	ΙΑΤΑ
8	6	6
14.4. Packing group		
1	I	I
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available		
14.6. Special precautions for user		
Overland transport		
Classification code (ADR)	: T2	
Limited quantities (ADR)	: 0	
Excepted quantities (ADR)	: E5	
Packing instructions (ADR)	: P002, IBC07	
Mixed packing provisions (ADR)	: MP18	
Portable tank and bulk container instructions (ADR)	: T6	
Portable tank and bulk container special provisions	: TP33	
(ADR)		
Tank code (ADR)	: S10AH	
Tank special provisions (ADR)	: TU15, TE19	
Vehicle for tank carriage	: AT	
Transport category (ADR)	: 1	
Special provisions for carriage - Packages (ADR)	: V10	
Special provisions for carriage - Loading, unloading and handling (ADR)		
Special provisions for carriage - Operation (ADR)	: S9, S14	
Hazard identification number (Kemler No.)	: 66	
Orange plates	66 1692	
Tunnel restriction code (ADR)	: C/E	
Transport by sea		
Special provisions (IMDG)	: 43	
Limited quantities (IMDG)	: 0	
Excepted quantities (IMDG)	: E5	
Packing instructions (IMDG)	: P002	
IBC packing instructions (IMDG)	: IBC07	
IBC special provisions (IMDG)	: B1	
Tank instructions (IMDG)	: T6	
Tank special provisions (IMDG)	: TP33	
EmS-No. (Fire)	: F-A	
EmS-No. (Spillage)	: S-A	
Stowage category (IMDG)	: A	
Properties and observations (IMDG)		htly soluble; the salts are soluble in water. Highly st inhalation.
MFAG-No	: 151	
Air transport		
PCA Excepted quantities (IATA)	: E5	
PCA Limited quantities (IATA)	: Forbidden	
PCA limited quantity max net quantity (IATA)	: Forbidden	

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PCA packing instructions (IATA)	:	666
PCA max net quantity (IATA)	:	5kg
CAO packing instructions (IATA)	:	673
CAO max net quantity (IATA)	:	50kg
Special provisions (IATA)	:	A5
ERG code (IATA)	:	6L

#### 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

#### 15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not applicable.

#### **POP Regulation (Persistent Organic Pollutants)**

Not applicable.

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

Full text of H- and EUH-statements:	
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H400	Very toxic to aquatic life.

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Full text of H- and EUH-sta	tatements:
H410 Ver	ery toxic to aquatic life with long lasting effects.

#### Safety Data Sheet (SDS), EU

DISCLAIMER OF LIABILITY The EDQM has created this SDS as a downstream user for regulatory compliance to rules applicable to chemicals only. This article is intended only for small-volume laboratory analysis and other routine testing prescribed in the pharmacopoeia or EDQM study protocol, under controlled conditions and by professionals only. Any other use of this article or the SDS information is the sole responsibility of the user. This substance is present in articles in quantities totalling under 10 kg per year. There is no human or environmental exposure under intended and foreseeable conditions of use. The user has the responsibility for handling, storage, use conditions and disposal of this article and for any use of the information in this SDS. The information has been obtained from suppliers and is without any warranty, express or implied, regarding its correctness. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the article.