



CONSEIL DE L'EUROPI

# Flumazenil

# 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 Product code Synonyms	<ul> <li>Substance</li> <li>Flumazenil</li> <li>201600393</li> <li>Flumazenil, salts, hydrates, isomers and impurities where applicable</li> </ul>
1.2. Relevant identified uses of the substa	nce or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: The product is intended for research, analysis and scientific education.

: For professional use only

: Laboratory chemicals

# Use of the substance/mixture Function or use category

# 1.2.2. Uses advised against

1.4. Emergency telephone number

Restrictions on use

: Do not use : Ingestion, Inhalation, Dermal

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

European Directorate for the Quality of Medicines & Healthcare EDQM, Council of Europe 7, Allée Kastner, CS30026 F- 67081 Strasbourg France T +33(0)388412035 - F +33(0)388412771 sds@edqm.eu - www.edqm.eu

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] H336 Specific target organ toxicity - Single exposure, Category 3, Narcosis 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

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : H336 - May cause drowsiness or dizziness. Hazard statements (CLP) Precautionary statements (CLP)

: P261 - Avoid breathing dust.

Labelling according to: exemption for inner packaging where the contents do not exceed 10ml

No labelling required

# 2.3. Other hazards

No additional information available

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 3: Composition/information on ingredients				
3.1. Substances				
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Flumazenil	-	≤ 100	STOT SE 3, H336	
Full text of H- and EUH-statements: see section 7	16			
3.2. Mixtures				
Not applicable				
SECTION 4: First aid measures				

4.1. Description of first aid measures	
First-aid measures after skin contact First-aid measures after eye contact	<ul><li>Wipe off as much as possible (using a clean, soft, absorbent material).</li><li>Rinse eyes with water as a precaution.</li></ul>
4.2. Most important symptoms and effects,	both acute and delayed
No additional information available	
4.3. Indication of any immediate medical at	tention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Extinguishing blanket.
5.2. Special hazards arising from the subst	ance 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 measu	res
6.1. Personal precautions, protective equip	ment and emergency procedures
<ul><li>6.1.1. For non-emergency personnel</li><li>Emergency procedures</li><li>6.1.2. For emergency responders</li><li>No additional information available</li></ul>	: Avoid all unnecessary exposure.
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for containment	and cleaning up
No additional information available	

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 6.4. Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

No additional information available

# 7.2. Conditions for safe storage, including any incompatibilities

No additional information available

# 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

# 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. Both local exhaust and general room ventilation are usually required.

### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

No additional information available

### 8.2.2.2. Skin protection

Skin and body protection: Lab coat

Hand protection:

Protective gloves

# 8.2.2.3. Respiratory protection

No additional information available

# 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and che	amical properties	
5.1. Information on basic physical and the		
Physical state	: Solid	
Colour	: Not available	
Appearance	: Powder.	
Odour	: Not available	
Odour threshold	: Not available	
Melting point	: Not available	
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	
Vapour pressure	: Not available	
Vapour pressure at 50°C	: Not available	
Density	: Not available	
Relative density	: Not available	
Relative vapour density at 20°C	: Not applicable	
Particle size	: Not 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

None known.

**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.

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

11.1. Information on hazard classe	s as defined in Regulation (EC) No 1272/2008
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Flumazenil	
LD50 oral rat	> 2000 mg/kg
Skin corrosion/irritation	: Not classified (Lack of data)
Serious eye damage/irritation	: Not classified (Lack of data)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Lack of data)
Carcinogenicity	: Not classified (Lack of data)
Reproductive toxicity	: Not classified (Further details: STOT-single exposure)
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Further details: STOT-single exposure)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

No additional information available

SECTION 12: Ecological information
12.1. Toxicity
Ecology - general: Presents no specific risk for the environment.Hazardous to the aquatic environment, short-term (acute): Not classifiedHazardous to the aquatic environment, long-term (chronic): Not classified
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
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

No additional information available

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **SECTION 14: Transport information** In accordance with ADR / IMDG / IATA ADR IMDG ΙΑΤΑ 14.1. UN number or ID number Not applicable Not applicable Not applicable 14.2. UN proper shipping name Not applicable Not applicable Not applicable 14.3. Transport hazard class(es) Not applicable Not applicable Not applicable 14.4. Packing group Not applicable Not applicable Not applicable 14.5. Environmental hazards Not applicable Not applicable Not applicable No supplementary information available

**14.6. Special precautions for user** 

# **Overland transport**

Not applicable

# Transport by sea

Not applicable

# Air transport

Not applicable

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)

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## **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:	
H336	May cause drowsiness or dizziness.
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

# 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.