



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 03/04/2023 Revision date: 20/10/2023 Supersedes version of: 03/04/2023 Version: 2.0

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

### **1.1. Product identifier**

Product form	: Substance
Substance name	: Etoposide
Chemical name	: Etoposide
Product code	: 201600368
Synonyms	: Etoposide, salts, hydrates, isomers and impurities where applicable

#### 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	. De petuse incretion inhelation Dermal
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 <u>sds@edqm.eu</u> - <u>www.edqm.eu</u>

#### 1.4. Emergency telephone number

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]

Acute toxicity (oral), Category 4	H302
Germ cell mutagenicity, Category 1B	H340
Carcinogenicity, Category 1B	H350
Reproductive toxicity, Category 1B	H360FD
Specific target organ toxicity – Repeated exposure, Category 1	H372
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

Hazard pictograms (CLP)



Signal word (CLP) Hazard statements (CLP) Danger
H302 - Harmful if swallowed.
H340 - May cause genetic defects.
H350 - May cause cancer.

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Precautionary statements (CLP)

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H360FD - May damage fertility. May damage the unborn child.

- H372 Causes damage to organs through prolonged or repeated exposure.
- : P201 Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

- P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P330 Rinse mouth.
- P405 Store locked up.
- P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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

Hazard pictograms (CLP)



### 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]
Etoposide	-	≤ 100	Acute Tox. 4 (Oral), H302 (ATE=1784 mg/kg bodyweight) Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360FD STOT RE 1, H372

## 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	i de la constante de la constan	
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 and detergent.	
First-aid measures after eye contact	: Rinse with water while holding the eyes wide open.	
First-aid measures after ingestion	: Rinse mouth. Specific medical surveillance. Prolonged medical observation may be indicated.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects	: Delayed adverse effects possible.	

Oymptom3/cneet3	. Delayed adverse effects possi
Symptoms/effects after inhalation	: Insufficient data available.

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Symptoms/effects after skin contact	:	Insufficient data available.
Symptoms/effects after eye contact	:	Insufficient data available.
Symptoms/effects after ingestion	:	Symptoms may include dizziness, headache, nausea and loss of coordination.

### 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. Active substance. Pharmaceutical.

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Extinguishing blanket.			
5.2. Special hazards arising from the 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 measures			
6.1. Personal precautions, protective equi	ipment 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			
Emergency procedures	: Wear suitable protective clothing, gloves and eye or face protection.		
6.1.2. For emergency responders			
No additional information available			
6.2. Environmental precautions			
No additional information available			
6.3. Methods and material for containmen	t and cleaning up		
Methods for cleaning up	: Ensure waste is collected and contained. Clean thoroughly. Wash the non-recoverable remainder with : Sodium hypochlorite solution.		
6.4. Reference to other sections			
No additional information available			

SECTION 7: Handling and storage 7.1. Precautions for safe 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. Material : should be handled in a laboratory hood whenever possible. Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. 7.2. Conditions for safe storage, including any incompatibilities : Comply with applicable regulations. Technical measures Storage conditions : Store locked up. 7.3. Specific end use(s) See Heading 1.

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#### **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. 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	: Not available			
Freezing point	: Not available			

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Boiling point

Flammability

Explosive limits

: Not available

: Not available

: Not applicable

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## 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 (EC) No 1272/2008			
Acute toxicity (oral) Acute toxicity (dermal)	: Harmful if swallowed. : Not classified (Lack of data)		
Acute toxicity (inhalation)	: Not classified (Lack of data)		
Etoposide			
LD50 oral rat	1784 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 (Lack of data)		

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Germ cell mutagenicity Carcinogenicity	: May cause genetic defects. : May cause cancer.
Etoposide	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: May damage fertility. May damage the unborn child.
STOT-single exposure	: Not classified (Lack of data)
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified (Technical impossibility to obtain the data)

## 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.Hazardous to the aquatic environment, short-term (acute): Not classified (Based on available data, the classification criteria are not met)Hazardous to the aquatic environment, long-term (chronic): Not classified (Based on available data, the classification criteria are not met)
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

Regional waste regulation

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

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		

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ADR	IMDG	ΙΑΤΑ		
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)

## 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)

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#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

# **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
	Reason for no classification	Added	
	Reason for no classification	Added	
	Supersedes version of	Added	
	Revision date	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
4.1	First-aid measures after skin contact	Modified	
11.1	Reason for no classification	Added	
11.1	ATE CLP (oral)	Modified	
11.1	LD50 oral rat	Modified	

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 1B	Carcinogenicity, Category 1B
H302	Harmful if swallowed.
H340	May cause genetic defects.
H350	May cause cancer.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
Muta. 1B	Germ cell mutagenicity, Category 1B
Repr. 1B	Reproductive toxicity, Category 1B
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1

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.