

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 21-Dec-2022 Revision Number 1

# 100-1163 - Etoposide

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Document Number 10000019491

Product Name Etoposide

**Synonyms** NSC 141540; VP-16;

(5aR)-9S-[[4,6-O-ethylidene-β-D-glucopyranosyl]oxy]-5R,8,8aR,9-tetrahydro-5-(4-hydroxy-3

,5-dimethoxyphenyl)-furo[3',4':6,7]naphtho[2,3-d]-1R,3-dioxol-6(5aH)-one;

Pure substance/mixture Substance

Contains 9-(4-hydroxy-3,5-dimethoxyphenyl)-8-oxo-5,5a,6,8,8a,9-hexahydrofuro[3',4':6,7]naphtho[2,3-d][1,3]dioxol-5-yl 4,6-O-ethylidene-beta-D-glucopyranoside

Molecular weight 588.6

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

Recommended Use Laboratory chemical

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

### **Manufacturer**

STEMCELL Technologies SARL

40 Rue des Berges, Miniparc Polytec, Bâtiment Sirocco, 38000 Grenoble, France

+33 (0) 4 76 04 75 30

STEMCELL Technologies Germany GmbH

Stolberger Str. 200, 50933, Köln, Germany

+33 (0) 4 76 04 75 30

STEMCELL Technologies UK Ltd.

Building 7100, Cambridge Research Park, Beach Drive, Waterbeach, Cambridge, UK, CB25 9TL

+33 (0) 4 76 04 75 30

For further information, please contact

### 1.4. Emergency telephone number

Emergency Telephone No information available

Emergency Telephone - §45 - (EC)1272/2008		
Europe	112	



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# **Section 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Carcinogenicity	Category 1A - (H350)

#### 2.2. Label elements

251-509-1

Contains 9-(4-hydroxy-3,5-dimethoxyphenyl)-8-oxo-5,5a,6,8,8a,9-hexahydrofuro[3',4':6,7]naphtho[2,3-d][1,3]dioxol-5-yl 4,6-O-ethylidene-beta-D-glucopyranoside



Signal word Danger

### **Hazard statements**

#### **Hazard statements**

H302 - Harmful if swallowed

H350 - May cause cancer

H303 - May be harmful if swallowed

### Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention

#### **Additional information**

This product requires tactile warnings if supplied to the general public

#### 2.3. Other hazards

No information available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Synonyms

Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No.	REACH Registration
				1272/2008 [CLP]	Number



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9-(4-hydroxy-3,5-dimethoxyphenyl)-8	251-509-1	33419-42-0	100	Carc. 1 (H350)	No data available
-oxo-5,5a,6,8,8a,9-hexahydrofuro[3',				Acute Tox. 4 (H302)	
4':6,7]naphtho[2,3-d][1,3]dioxol-5-yl					
4,6-O-ethylidene-beta-D-glucopyrano					
side					

Full text of H- and EUH-phrases: see section 16

# **Section 4: FIRST AID MEASURES**

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

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

**Symptoms** No information available.

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

# **Section 5: FIRE-FIGHTING MEASURES**

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable Extinguishing Media No information available.

5.2. Special hazards arising from the substance or mixture



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Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

### **Section 6: ACCIDENTAL RELEASE MEASURES**

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

Personal precautions Ensure adequate ventilation.

Other Information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

### Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

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



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Storage Conditions Store in accordance with information listed on the Product Information Sheet (PIS). Keep

out of the reach of children.

7.3. Specific end use(s)

**Identified Uses** 

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

### **Exposure Limits**

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
9-(4-hydroxy-3,5-dimetho	-	-	TWA: 0.0017 mg/m <sup>3</sup>	-	-
xyphenyl)-8-oxo-5,5a,6,8,					
8a,9-hexahydrofuro[3',4':					
6,7]naphtho[2,3-d][1,3]dio					
xol-5-yl					
4,6-O-ethylidene-beta-D-					
glucopyranoside					
33419-42-0					

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

Personal protective equipment

**Eye/face protection** No special protective equipment required.

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.



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**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

**Environmental exposure controls** No information available.

### **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

None known

9.1. Information on basic physical and chemical properties

Physical state Solid
Appearance Powder
Color white

Odor No data available.
Odor threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pHNo data availableNone knownMelting point / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlash pointNo data availableNone knownEvaporation rateNo data availableNone known

Flammability (solid, gas) Product is not flammable. Flammability Limit in Air

Upper flammability limit: No data available

Lower flammability limit: No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative densityNo data availableNone knownWater solubilityNo data availableNone known

Solubility(ies) DMSO: 25 mg/mL; **Partition coefficient** No data available None known No data available **Autoignition temperature** None known No data available **Decomposition temperature** None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

**Explosive properties**No information available

Oxidizing properties No information available

9.2. Other information

Softening point No information available

Molecular weight588.6Molecular formulaC29H32O13

VOC Content (%)

Liquid Density

No information available
No information available



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Bulk density No information available

# **Section 10: STABILITY AND REACTIVITY**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

Stability Stable under recommended transport or storage conditions.

**Explosion data** 

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon dioxide (CO2). Carbon monoxide.

# **Section 11: TOXICOLOGICAL INFORMATION**

11.1. Information on toxicological effects

Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

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Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available. Harmful if swallowed. (based

on components).

Symptoms related to the physical, chemical and toxicological characteristics

No information available. **Symptoms** 

Numerical measures of toxicity

**Acute toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,784.00 mg/kg

100 % of the mixture consists of ingredient(s) of unknown toxicity. Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

### **Product Information**

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
9-(4-hydroxy-3,5-dimethoxyphe	= 1784 mg/kg (Rat)		
nyl)-8-oxo-5,5a,6,8,8a,9-hexahy			
drofuro[3',4':6,7]naphtho[2,3-d][			
1,3]dioxol-5-yl			
4,6-O-ethylidene-beta-D-glucop			
yranoside			

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available. Skin corrosion/irritation **Product Information** 

No information available. Serious eye damage/eye irritation

Product Information

Respiratory or skin sensitization No information available.

Product Information

Germ cell mutagenicity No information available.



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Product Information

CarcinogenicityClassification based on data available for ingredients.Product Information

Reproductive toxicity

No information available.

Product Information

STOT - single exposure

No information available.

Product Information

STOT - repeated exposure No information available.

Product Information

**Aspiration hazard** No information available.

# **Section 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

**Product Information** 

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

12.4. Mobility in soil

**Mobility in soil** No information available.

12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

12.6. Other adverse effects

Other adverse effects No information available.



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# **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

# **Section 14: TRANSPORT INFORMATION**

#### **IMDG**

14.1 UN Number Not regulated 14.2 UN proper shipping name Not regulated Not regulated 14.3 Transport hazard class(es) 14.4 Packing Group Not regulated Not applicable 14.5 Marine pollutant

14.6 Special Provisions None

14.7. Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

# RID

14.1 UN Number Not regulated Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) 14.4 Packing Group Not regulated 14.5 Environmental hazard Not applicable 14.6 Special Provisions None

#### **ADR**

14.1 UN Number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing Group Not regulated 14.5 Environmental hazard Not applicable

14.6 Special Provisions None

Not regulated IATA 14.1 UN Number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing Group Not regulated



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14.5 Environmental hazard

Not applicable

14.6 Special Provisions

None

# **Section 15: REGULATORY INFORMATION**

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

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### **Persistent Organic Pollutants**

Not applicable

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

### **International Inventories**

**TSCA** Does not comply **DSL/NDSL** Complies **EINECS/ELINCS** Complies Does not comply **ENCS IECSC** Complies **KECL** Does not comply **PICCS** Does not comply **AICS** Does not comply

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

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Chemical Safety Report No information available

# **Section 16: OTHER INFORMATION**

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed H350 - May cause cancer

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

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

#### Disclaimer

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