

Product name Camptothecin
(M)SDS Number 13637
Version 1

Issuing Date: 2024-12-10

1. Identification

Product identifier

Product name Camptothecin

Other means of identification

(M)SDS Number 13637

Contains

Chemical name	English chemical name	CAS No
(S)-(+)-Camptothecin	(S)-(+)-Camptothecin	7689-03-4

UN number UN1544

Molecular Weight 348.40 g/mol

Details of the supplier of the safety data sheet

Manufacturer

Cell Signaling Technology, Inc.
3 Trask Lane
Danvers, MA 01923
United States
TEL: +1 978 867 2300
FAX: +1 978 867 2400

Importer

Cell Signaling Technology, Inc.
Building 7
A-SUN Science & Technology Park
399 Shengxia Road
Pudong Shanghai 201210
China
TEL: 4006-473287
FAX: (86) 21-5835-6116

Supplier

No information available

E-mail address support@cellsignal.com

Emergency telephone number

Emergency telephone 400 120 4937

Recommended use of the chemical and restrictions on use

Identified uses For Research Use Only. Not for Use in Diagnostic Procedures.

Restrictions on use No information available

2. Hazard(s) identification

Emergency Overview

Toxic if swallowed. Suspected of causing genetic defects.

Appearance	Crystalline Powder / See section 9	Physical state	Solid	Odor	See section 9
-------------------	------------------------------------	-----------------------	-------	-------------	---------------

Classification of the substance or mixture

Acute toxicity - Oral	Category 3
Germ cell mutagenicity	Category 2

Label elements**Signal Word**

Danger

Hazard Statements

Toxic if swallowed

Suspected of causing genetic defects

Prevention

Obtain special instructions before use.

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

Wash face, hands and any exposed skin thoroughly after handling.

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

Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF exposed or concerned: Get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Rinse mouth.

Storage

Store locked up.

Disposal

Dispose of contents/container to an approved waste disposal plant

Physical and chemical hazards

Not applicable.

Health hazards

Immediate Health Effects: Not applicable.

Chronic effects: Contains a known or suspected mutagen.

Environmental hazards

Not applicable.

Other hazards which do not result in classification

No information available.

3. Composition/information on ingredients

Chemical name	Weight-%	CAS No
(S)-(+)-Camptothecin	100	7689-03-4

4. First-aid measures

Description of necessary first aid measures

Inhalation	Move to fresh air.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Skin contact	Wash skin with soap and water.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Call a physician immediately.
<u>Most important symptoms/effects, acute and delayed</u>	No information available.
<u>For emergency responders</u>	No information available.
<u>Note to physicians</u>	Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Unsuitable Extinguishing Media	No information available
<u>Specific hazards arising from the chemical</u>	No information available.
<u>Special protective actions for fire-fighters</u>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
For emergency responders	Use personal protection recommended in Section 8.
<u>Environmental precautions</u>	Do not flush into surface water or sanitary sewer system.
<u>Methods and material for containment and cleaning up</u>	Prevent further leakage or spillage if safe to do so. Use personal protective equipment. Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.
<u>Precautions to prevent secondary hazards</u>	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. See Section 8 for information on appropriate personal protective equipment.
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible materials	None known based on information supplied.

8. Exposure controls/personal protection

Occupational exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

No data available

Monitoring and observation processes

No applicable information was found.

Engineering controls

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection	Tightly fitting safety goggles.
Skin and body protection	Wear protective gloves/clothing.
Hand protection	Impervious gloves.
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Crystalline Powder
Color	No information available
Physical state	Solid
Odor	No information available
Odor Threshold	No information available

Property	Values	Remarks • Method
pH	no data available	None known
Melting point/freezing point	260 °C	
Boiling point or initial boiling point and boiling range	no data available	None known

Flash point	no data available	None known
Evaporation rate	no data available	None known
Flammability	no data available	None known
Flammability Limits in Air		None known
Upper explosion limit	no data available	
Lower explosion limit	no data available	
Vapor pressure	no data available	None known
Relative vapor density	No data available	None known
Relative density	no data available	None known
Solubility	no data available	None known
Solubility in other solvents	Soluble in dimethyl sulfoxide (DMSO) @ 3 mg/mL Soluble in dimethyl formamide (DMF) @ 3 mg/mL	None known
Partition coefficient: n-octanol/water	no data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature	no data available	None known
Viscosity	no data available	None known
Viscosity, dynamic	no data available	None known

Additional information

Explosive properties	No information available
Oxidizing properties	No information available
Molecular Weight	348.40 g/mol

10. Stability and reactivity

Stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to Avoid No information available

Incompatible products Strong oxidizing agents

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors: Carbon oxides (COx), Nitrogen oxides (NOx).

11. Toxicological information**Acute Toxicity****Numerical measures of toxicity**

No information available

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
(S)-(+)-Camptothecin	= 153 mg/kg (Rat)	-	-

Skin corrosion/irritation No information available

Serious eye damage/eye irritation No information available

Respiratory or skin sensitization No information available

Mutagenic effects Some in vivo tests have shown mutagenic effects

Carcinogenicity No information available

Reproductive toxicity No information available.

Specific target organ toxicity (single exposure) No information available

Specific target organ toxicity (repeated exposure) No information available

Aspiration hazard No information available

12. Ecological information

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

Persistence and degradability No information available.

Bioaccumulative potential Not likely to bioaccumulate.

Chemical name	Octanol-Water Partition Coefficient
(S)-(+)-Camptothecin	1.74

Mobility in soil No information available.

13. Disposal considerations

Waste chemicals Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Do not empty into drains; dispose of this material and its container in a safe way.

Contaminated packaging Do not reuse empty containers.

14. Transport information

IMDG/IMO

UN number UN1544
UN proper shipping name Alkaloids, solid, n.o.s. (Camptothecin)
Transport hazard class(es) 6.1
Packing group III

IATA

UN number UN1544
UN proper shipping name Alkaloids, solid, n.o.s. (Camptothecin)
Transport hazard class(es) 6.1
Packing group III

China

UN number UN1544
UN proper shipping name Alkaloids, solid, n.o.s. (Camptothecin)
Transport hazard class(es) 6.1
Packing group III

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

15. Regulatory information

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

National regulations

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalog of occupational hazard factors:	Not applicable
Catalog of occupational diseases:	Not applicable

Regulations on the Control over Safety of Hazardous Chemicals

<u>Inventory of hazardous chemicals</u>	Not applicable
---	----------------

<u>GB 18218-2009 Identification of major hazard installations for dangerous chemicals</u>	Not applicable
---	----------------

List of hazardous chemicals under priority management	Not applicable
--	----------------

Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods	Not applicable
---------------------------------	----------------

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China	Not applicable
--	----------------

Measures for the Environmental Management of New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances	Contact supplier for inventory compliance status.
--	---

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer	Not applicable
---	----------------

The Stockholm Convention on Persistent Organic Pollutants	Not applicable
--	----------------

The Rotterdam Convention	Not applicable
---------------------------------	----------------

16. Other information

Issuing Date:	2024-12-10
----------------------	------------

Revision Note	The symbol (*) in the margin of this SDS indicates that this line has been revised.
----------------------	---

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA:	Time weighted average	STEL:	Short term exposure limit
Ceiling:	Maximum limit value:	*	Skin designation
C	Carcinogen		

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal

Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet