

**SAFETY DATA SHEET**

Create Date: 2021-02-08

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**SECTION 1: COMPANY AND PRODUCT INFORMATION**

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**1.1 Product identifiers**

Product name : Camptothecin

Cat. Number : ZXB-08-213

CAS number : 7689-03-4

Synonyms : Not available

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

Identified uses : For research use only. not intended for diagnostic or therapeutic use.

**1.3 Details of the supplier of the safety data sheet**Address : Hinter den Gärten 56  
89173 Lonsee  
Germany

Email : info@zellx.de

Phone : +49(0)731 55211521

Fax : +49(0)731 55211719

**1.4 Emergency telephone number**

Emergency phone : +49(0)731 55211521

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**SECTION 2: HAZARDS IDENTIFICATION**

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**2.1 Classification of substance or mixture**

Acute toxicity - Oral Category 3

**2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity - Oral Category 3

**2.3 Label elements and precautionary statements**Pictogram : 

Signal word : Danger

Hazard statement(s) : Toxic if swallowed.

Precautionary statement(s) : P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.**2.4 Hazards not otherwise classified (HNOC) or not covered by GHS**

None

## 2.5 NFPA Rating

Health hazard : 2  
Fire hazard : 0  
Reactivity hazard : 0

## 2.6 HMIS Rating

Health hazard : 2  
Chronic health hazard : 0  
Reactivity hazard : 0  
Flammability : 0  
Physical hazard : 0

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### 3.1 Substances

Substance	CAS#	EC#	Concentration
Camptothecin M.F: C <sub>20</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub> M.W: 348.35 g/mol	7689-03-4	Not available	<=100%

### 3.2 Hazardous components & classification

Acute Tox. 3; H301

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## SECTION 4: FIRST AID MEASURES

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### 4.1 Description of first aid measures

#### In case of inhalation

Immediate medical attention is required. Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

#### In case of skin contact

Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required.

#### In case of eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately. If symptoms persist, call a physician.

#### In case of ingestion

Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water. Call a physician.

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

Not available

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

Not available

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## SECTION 5: FIREFIGHTING MEASURES

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### 5.1 Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Unsuitable extinguishing media

Not available

### 5.3 Special hazards arising from the substance

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

### 5.4 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

**For personal protection see section 8**

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

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

Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

**For proper disposal see section 13**

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## SECTION 7: HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

**For precautions see section 2**

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

Storage conditions : Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2 - 8 °C. Keep in a dry place. Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects.

Incompatible materials : Not available

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control parameters

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

### 8.2 Engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### 8.3 Personal protective equipment

- Eye/face protection : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- Body protection : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection : Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- Control of environmental exposure : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- General hygiene considerations : When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

- a) Appearance : Powder
- b) Physical states : Solid
- c) Odor : Not available
- d) Odor threshold : Not available
- e) Melting point : 260 °C (500 °F) - dec.
- f) Boiling point range : 757.01 °C
- g) pH : Not available
- h) Density : 1.51 g/cm<sup>3</sup>
- i) Flash point : 411.63 °C
- j) Evaporation rate : Not available
- k) Flammability : Not available
- l) Upper/lower flammability or explosive limits: : Not available

<b>m)</b>	Vapor pressure	: 0
<b>n)</b>	Vapor density	: Not available
<b>o)</b>	Relative density	: Not available
<b>p)</b>	Water solubility	: Not available
<b>q)</b>	Partition coefficient:n-octanol/water	: 1.74
<b>r)</b>	Autoignition temperature	: Not available
<b>s)</b>	Decomposition temperature	: 260 ° C
<b>t)</b>	Kinematic viscosity	: Not available
<b>u)</b>	Explosive properties	: Not available
<b>v)</b>	Oxidizing properties	: Not available
<b>w)</b>	Solubility in other solvents	: Not available
<b>x)</b>	Surface tension	: Not available

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## **SECTION 10: STABILITY AND REACTIVITY**

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### **10.1 Reactivity**

Not available

### **10.2 Chemical stability**

Stable under recommended storage conditions.

### **10.3 Stability note(s)**

Not available

### **10.4 Polymerization**

Not available

### **10.5 Possibility of hazardous reactions**

Not available

### **10.6 Incompatible materials**

Strong oxidizing agents

### **10.7 Hazardous decomposition products**

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>).

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## **SECTION 11: TOXICOLOGICAL INFORMATION**

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### **11.1 Acute toxicity**

LD50 Oral : Not available

LD50 Dermal : Not available

LC50 Inhalation : Not available

### **11.2 Skin corrosion/irritation**

Not available

### **11.3 Serious eye damage/eye irritation**

Not available

### **11.4 Respiratory or skin sensitization**

Not available

#### **11.5 Germ cell mutagenicity**

Not available

#### **11.6 Carcinogenicity**

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH : Not available

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **11.7 Reproductive toxicity**

Not available

#### **11.8 Specific target organ toxicity – single exposure**

Not available

#### **11.9 Specific target organ toxicity – repeated exposure**

Not available

#### **11.10 Aspiration hazard**

Not available

#### **11.11 Additional Information**

Not available

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### **SECTION 12: ECOLOGICAL INFORMATION**

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#### **12.1 Toxicity**

Not available

#### **12.2 Aquatic toxicity**

Not available

#### **12.3 Persistence and degradability**

Not available

#### **12.4 Bioaccumulative potential**

Not available

#### **12.5 Mobility in soil**

Not available

#### **12.6 Results of PBT and vPvB assessment**

Not available

#### **12.7 Other adverse effect**

Not available

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### **SECTION 13: DISPOSAL CONSIDERATIONS**

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#### **13.1 Product**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 13.2 Packaging

Do not reuse container.

### 13.3 Recommendation

Waste codes should be assigned by the user based on the application for which the product was used.

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## SECTION 14: TRANSPORTATION INFORMATION

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### 14.1 DOT (US)

UN/ID no UN1544

Hazard Class 6.1

Packing Group III

Proper shipping name Alkaloids, solid, n.o.s.

Description UN1544, Alkaloids, solid, n.o.s. (Camptothecin), 6.1, III

Emergency Response Guide Number 151

### 14.2 IMDG

UN/ID no UN1544

Hazard Class 6.1

Packing Group III

Proper shipping name Alkaloids, solid, n.o.s.

Description UN1544, Alkaloids, solid, n.o.s. (Camptothecin), 6.1, III

Special Provisions IB8, IP3, T1, TP33

EmS-No F-A, S-A

### 14.3 IATA

UN/ID no UN1544

Hazard Class 6.1

Packing Group III

Proper shipping name Alkaloids, solid, n.o.s.

Description UN1544, Alkaloids, solid, n.o.s. (Camptothecin), 6.1, III

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## SECTION 15: REGULATORY INFORMATION

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### 15.1 SARA

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

### 15.2 Clean water act (CWA)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### 15.3 Right to know components

Massachusetts : No components are subject to the Massachusetts Right to Know Act.

Pennsylvania : (S)-(+)-Camptothecin CAS-No-7689-03-4

New Jersey : (S)-(+)-Camptothecin CAS-No-7689-03-4

California proposition : This product does not contain any Proposition 65 chemicals.  
65 components

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## **SECTION 16: OTHER INFORMATION**

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### **16.1 Disclaimer**

This product is offered by zellx-biochem.com for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall zellx-biochem.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if zellx-biochem.com has been advised of the possibility of such damages.

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### **16.2 Preparation Information**

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