

## PRODUCT AND COMPANY IDENTIFICATION

**GHS Product Name:** Topotecan Hydrochloride  
**Product code:** h-308  
**Company:** PharmSintez.Lab  
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### 1.1 Product identifiers

Product name:	Topotecan Hydrochloride
Product Catalogue Number:	h-308
Band:	PharmSintez.Lab
CAS-No:	119413-54-6

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

Identified uses:	Laboratory chemicals, Synthesis of substances.
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## 1. HAZARDS IDENTIFICATION

### 1.1 Classification of the substance or mixture

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

Skin irritation (Category 2), H315  
 Serious eye damage (Category 1), H318  
 Respiratory sensitisation (Category 1), H334  
 Skin sensitisation (Category 1), H317  
 Germ cell mutagenicity (Category 2), H341  
 Reproductive toxicity (Category 2), H361  
 Specific target organ toxicity - single exposure (Category 1), H370  
 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335  
 Chronic aquatic toxicity (Category 4), H413  
 For the full text of the H-Statements mentioned in this Section, see Section 16.

### 1.2 GHS Label elements, including precautionary statements

Pictogram:



Signal word:

Danger

Hazard statement(s)

H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction  
 H318: Causes serious eye damage.  
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335: May cause respiratory irritation.  
 H341: Suspected of causing genetic defects.  
 H361: Suspected of damaging fertility or the unborn child.  
 H370: Causes damage to organs.  
 H413: May cause long lasting harmful effects to aquatic life.

## Precautionary statement(s)

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/ vapors/ spray.
P264:	Wash skin thoroughly after handling.
P270:	Do not eat, drink or smoke when using this product.
P271:	Use only outdoors or in a well-ventilated area.
P272:	Contaminated work clothing should not be allowed out of the workplace.
P273:	Avoid release to the environment.
P280:	Wear protective gloves/ eye protection/ face protection.
P302 + P352:	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310:	Immediately call a POISON CENTER/doctor.
P321:	Specific treatment (see supplemental first aid instructions on this label).
P333 + P313:	If skin irritation or rash occurs: Get medical advice/ attention.
P362:	Take off contaminated clothing and wash before reuse.
P403 + P233:	Store in a well-ventilated place. Keep container tightly closed.
P405:	Store locked up.
P501:	Dispose of contents/ container to an approved waste disposal plant.

**1.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none****2. COMPOSITION/INFORMATION ON INGREDIENTS****2.1 Substances**

Synonyms:	NSC 609699 NSC-609699 NSC609699; SKF S104864A. SKF 104864 A SKF-104864-A; SKF104864A; TOPO. Hycamtamine; Hycamtin Hydrochloride; Nogitecan Hydrochloride; Topotecan; Nogitecan Hydrochloride; US brand name: Hycamtin.
Formula:	$C_{23}H_{24}ClN_3O_5$
Molecular weight:	457.91
CAS-No:	119413-54-6

**Hazardous components**

Component	Classification	Concentration
Topotecan HCl	Skin Irrit. 2; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Muta. 2; Repr. 2; STOT SE 3; Aquatic Chronic 4; H315, H317, H318, H334, H335, H341, H361, H413	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

**3. FIRST AID MEASURES****3.1 Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### **3.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### **3.3 Indication of any immediate medical attention and special treatment needed**

No data available

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## **4. FIREFIGHTING MEASURES**

### **4.1 Extinguishing media**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **4.2 Special hazards arising from the substance or mixture**

No data available

### **4.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **4.4 Further information**

No data available

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## **5. ACCIDENTAL RELEASE MEASURES**

### **5.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

### **5.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### **5.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **5.4 Reference to other sections**

For disposal see section 13.

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## **6. HANDLING AND STORAGE**

### **6.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### **6.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 °C for short term (weeks to 3 months) or -20°C for long term (3 months to years).

Keep in a dry place.

**6.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**7. EXPOSURE CONTROLS/PERSONAL PROTECTION****7.1 Control parameters****Components with workplace control parameters**

Component	CAS-No.	Value	Control parameters	Basis
Topotecan HCl	119413-54-6	N/A	N/A	N/A

**7.2 Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**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 N100 (US) or type P3 (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.

**8. PHYSICAL AND CHEMICAL PROPERTIES****8.1 Information on basic physical and chemical properties**

a) Appearance Form:	Color: Yellow Form: Solid powder
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data
h) Evaporation rate	No data
i) Flammability (solid, gas)	No data
j) Upper/lower flammability or explosive limits	No data available

k) Vapour pressure	No data
l) Vapour density	No data
m) Relative density	No data
n) Water solubility	Insoluble
o) Partition coefficient: noctanol/ water	log Pow: > 99
p) Auto-ignition temperature	No data
q) Decomposition temperature	No data
r) Viscosity	No data
s) Explosive properties	No data
t) Oxidizing properties	No data

## 8.2 Other safety information

No data available

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## 9. STABILITY AND REACTIVITY

**9.1 Reactivity :** No data available

**9.2 Chemical stability:** Stable under recommended storage conditions.

**9.3 Possibility of hazardous reactions:** No data available

**9.4 Conditions to avoid:** No data available

**9.5 Incompatible materials:** No data available

### 9.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)

Other decomposition products - No data available

In the event of fire: see section 5

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## 10. TOXICOLOGICAL INFORMATION

### 10.1 Information on toxicological effects

<b>Acute toxicity</b>	No data available
Inhalation:	No data available
Inhalation:	Irritating to respiratory
Dermal	No data available

**Skin corrosion/irritation:** No data available

**Serious eye damage/eye irritation:** No data available

### Respiratory or skin sensitisation

**Germ cell mutagenicity:** No data available

Hamster: No data available

Lungs: No data available

Cytogenetic analysis: No data available

Mouse: No data available

Micronucleus test: No data available

### Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable,
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 A:	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.

**Reproductive toxicity**

Reproductive toxicity - Rat - No data available

Maternal Effects: No data available

Reproductive toxicity - Rat - No data available

Effects on Newborn: No data available

Developmental Toxicity - Rat - No data available

Specific Developmental Abnormalities: No data available

**Specific target organ toxicity - single exposure** Inhalation - May cause respiratory irritation.**Specific target organ toxicity - repeated exposure:** No data available**Aspiration hazard:** No data available**Additional Information**

RTECS: DA8340700

Alopecia., Liver injury may occur., Kidney injury may occur., Nausea, Headache, Vomiting, bone marrow depression

Stomach - Irregularities - No data available

Central nervous system - No data available

Kidney - Irregularities - No data available

Heart - Irregularities - No data available

Stomach - Irregularities - No data available

Stomach - Irregularities - No data available

Kidney - Irregularities - No data available

Stomach - Irregularities - No data available

**11. ECOLOGICAL INFORMATION****11.1 Toxicity:** No data available**11.2 Persistence and degradability:** No data available**11.3 Bioaccumulative potential:** No data available**11.4 Mobility in soil:** No data available**11.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**11.6 Other adverse effects:** No data available**12. DISPOSAL CONSIDERATIONS****12.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste

disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

## 13. TRANSPORT INFORMATION

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

## 14. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H301 + H311 +	Toxic if swallowed, in contact with skin or if inhaled
H315	Causes skin irritation.

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs.
H413	May cause long lasting harmful effects to aquatic life.
Muta.	Germ cell mutagenicity
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitisation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
STOT SE	Specific target organ toxicity - single exposure

### HMIS Rating

Health hazard: 2

Chronic Health Hazard: \*

Flammability: 0

Physical Hazard 0

### NFPA Rating

Health hazard: 2

Fire Hazard: 0

Reactivity Hazard: 0

**Further information**

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**Preparation Information**

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Product Safety – multiple Region

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