

# Safety Data Sheet

## SAFETY DATA SHEET - LC LABORATORIES REVISION DATE: JULY 1, 2019

### SECTION 1. IDENTIFICATION:

Trade name: Irinotecan, Hydrochloride Salt, Trihydrate

Product Number: [I-4122](#)

Manufacturer/Supplier:

LC Laboratories

165 New Boston Street

Woburn, MA 01801 USA

1-781-937-0777 Fax: 1-781-938-5420

---

### SECTION 2. HAZARD(S) IDENTIFICATION:

Hazard Description: Harmful

Substance Class Identifier: Tumorigen; Drug; Human Data Harmful if swallowed

May be harmful if inhaled or absorbed through the skin

Ingestion may cause nausea, vomiting, abdominal pain, diarrhea, xerostomia (dry mouth), colic, anemia, neutropenia (reduction of a certain type of white blood cells), thrombocytopenia (decreased number of platelets), bone marrow depression, exfoliative dermatitis, photosensitivity, rash, pruritus (itching), headache, dizziness, light headedness, fluctuations in heart rate, changes in blood pressure, chest pain, and serious allergic reactions including anaphylaxis  
May cause harm to the unborn child and is suspected of causing genetic defects

Exposure may cause irritation of the skin, eyes, mucous membranes, and upper respiratory tract

Signal Word: Warning

H302+312+332 - Harmful if swallowed, in contact with skin or if inhaled

### GHS Precautionary Statements:

P2562 - Do not get in eyes, on skin or on clothing

WARNING: For Laboratory Research Use Only



---

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: (4S)-4,11-Diethyl-3,4,12,14-tetrahydro-4-hydroxy-3,14-dioxo-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinolin-9-yl ester [1,4'-bipiperidine]-1'-carboxylic acid, hydrochloride, trihydrate

Synonyms: Camptosar, Topotecin, Campto, Camptothecin 11, CPT-11, U-101440E, NSC-616348, DQ-2805, Camptothecin Analog

Hazardous Ingredient: Irinotecan, Hydrochloride Salt, Trihydrate

CAS Registry Number: 136572-09-3

Molecular Weight: 623.14

Molecular Formula:  $C_{33}H_{38}N_4O_6 \cdot HCl \cdot 3H_2O$

---

#### **SECTION 4. FIRST-AID MEASURES:**

After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration

After skin contact: flush with copious amounts of water; remove contaminated clothing and shoes; call a physician

After eye contact: check for and remove contact lenses; flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician

After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician

---

#### **SECTION 5. FIRE-FIGHTING MEASURES:**

Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder, or foam

Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

Unusual fire hazard: may emit toxic fumes under fire conditions such as carbon monoxide, etc.

---

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES:**

Person-related safety precautions: cordon off area of spill; wear self-contained breathing apparatus, protective clothing and heavy rubber gloves

Measures for cleaning/collecting: absorb solutions with finely- powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated material according to Section 13

---

#### **SECTION 7. HANDLING AND STORAGE:**

Information for safe handling: avoid contact with skin, eyes and clothing; material may be an irritant

Storage: store solid and solutions at -20 °C

---

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

Personal protective equipment as follows:

Breathing equipment: NIOSH/MSHA-approved respirator

Protection of hands: handle with Nitrile rubber gloves with minimum thickness of 0.11 mm (4.3 mil). This recommendation should not be interpreted as offering an approval for any specific use conditions. Please review this

recommendation with a safety officer to evaluate if it is appropriate for the anticipated use.

Eye protection: chemical safety goggles

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:**

Form: Crystalline solid; granular or powder

Color: pale yellow

Odor: none

Melting point/Melting range: not tested

Danger of explosion: none

Solubility in / Miscibility with water: soluble in water at 25 mg/mL; buffers, serum, or other additives may increase or decrease the aqueous solubility

Solvent content: none

Organic solvents: soluble in DMSO at 100 mg/mL; very poorly soluble in ethanol

---

**SECTION 10. STABILITY AND REACTIVITY:**

Stability: stable if stored as directed; avoid strong oxidizing agents

Thermal decomposition / conditions to be avoided: protect from light and heat

Dangerous products of decomposition: thermal decomposition may produce toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides

---

**SECTION 11. TOXICOLOGICAL INFORMATION:**

RTECS #: DW1060750

Acute toxicity: oral toxicity (LD50): 867 mg/kg (rat), 1045 mg/kg (mouse); intravenous toxicity (LD50): 83.6 mg/kg (rat), 132 mg/kg (mouse; 40 mg/kg (dog)

Primary irritant effect:

On the skin: may be an irritant; may be harmful if absorbed through the skin

On the eye: may be an irritant

Inhalation: may be harmful if inhaled; may be irritating to mucous membranes and upper respiratory tract

Ingestion: harmful if swallowed

---

**SECTION 12. ECOLOGICAL INFORMATION:**

General notes: no data available

Treat as potentially toxic if released into the environment

---

**SECTION 13. DISPOSAL CONSIDERATIONS:**

Dispose of in accordance with prevailing country, federal, state and local regulations

---

**SECTION 14. TRANSPORT INFORMATION:**

DOT:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

IATA class:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

---

**SECTION 15. REGULATORY INFORMATION:**

Code letter and hazard designation of product:

XN: Harmful

EU Risk And Safety phrases:

S22: Do not breathe dust

S24/25: Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves, and eye/face protection

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S53: Avoid exposure - obtain special instructions before use

R22: Harmful if swallowed

R46: May cause inheritable genetic damage

R61: May cause harm to the unborn child

R68: Possible risk of irreversible effects

---

**SECTION 16. OTHER INFORMATION:**

The above information is believed to be correct based on our present knowledge but does not purport to be complete. For research use only by trained personnel. The burden of safe use of this material rests entirely with the user. LC Laboratories disclaims all liability

Reviewed: July 1, 2019