

# Safety Data Sheet

## Safety Data Sheet - LC Laboratories Revision Date: July 1, 2019

### SECTION 1. IDENTIFICATION:

Trade name: Temsirolimus  
Product Number: [T-8040](#)  
Manufacturer/Supplier:  
LC Laboratories  
165 New Boston Street  
Woburn, MA 01801 USA  
1-781-937-0777 Fax: 1-781-938-5420

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

Hazard Description: Immunosuppressant  
Harmful if swallowed, inhaled, or absorbed through the skin  
Exposure may result in hypersensitivity reactions, nausea, diarrhea, anorexia (decreased appetite), weight loss, asthenia (muscle weakness), dyspnea (shortness of breath), pneumonitis/interstitial lung disease, mucositis/stomatitis (inflammation/ulceration of the mucous membranes lining of the mouth and digestive tract), skin rash, pruritus (itching), leukopenia (decreased white blood cell levels), thrombocytopenia (decreased blood platelets), anemia, hyperglycemia (elevated blood sugar level), hypercholesterolemia (elevated serum cholesterol level), hypertriglyceridemia (elevated serum triglyceride level), and hypophosphatemia (low serum phosphorus)  
Exposure may cause irritation of the respiratory tract, digestive tract, skin, and eyes

Signal Word: Danger

#### GHS Hazard Statements:

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



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

Chemical Name: 42-[3-Hydroxy-2-(hydroxymethyl)-2-methylpropanoate]-rapamycin

Synonyms: CCI-779, C15182, NSC-683864, Torisel, WAY-CCI 779

Hazardous Ingredient: Temsirolimus

CAS Registry Number: 162635-04-3

Molecular Weight: 1030.29

Molecular Formula:  $C_{56}H_{87}NO_{16}$

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#### **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

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#### **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.

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#### **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

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#### **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

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#### **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: white to off-white

Odor: none

Melting point/Melting range: no data

Danger of explosion: none

Solubility in / Miscibility with water: very poorly soluble in water; maximum solubility in plain water is estimated to be about 10-20  $\mu\text{M}$ ; buffers, serum, or other additives may increase or decrease the aqueous solubility

Solvent content: none

Organic solvents: soluble in DMSO at 200 mg/mL; soluble in ethanol at 200 mg/mL

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## **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 and carbon dioxide, and nitrogen oxides

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## **SECTION 11. TOXICOLOGICAL INFORMATION:**

RTECS #: VE6257000

Acute toxicity: intravenous toxicity (TDLo): 0.28-0.5 mg/kg (human)

Primary irritant effect:

On the skin: may cause skin irritation; harmful if absorbed through the skin

On the eye: may cause eye irritation

Inhalation: harmful if inhaled; may cause respiratory tract irritation

Ingestion: harmful if swallowed

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

General notes: no data available

Treat as potentially toxic if released into the environment

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

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

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## **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

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## **SECTION 15. REGULATORY INFORMATION:**

Code letter and hazard designation of product:

T: Toxic

EU Risk And Safety phrases:

S22: Do not breathe dust

S24/25: Avoid contact with skin and eyes

S28: After contact with skin, wash immediately with plenty of water

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

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

R33: Danger of cumulative effects

R48: Danger of serious damage to health by prolonged exposure

R60: May impair fertility

R61: May cause harm to the unborn child

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## **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