

Safety Data Sheet

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

SECTION 1. IDENTIFICATION:

Trade name: Thapsigargin
Product Number: [T-3250](#)
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: Irritant
May be harmful if swallowed, inhaled, or absorbed through the skin
Causes irritation of the skin, eyes, mucous membranes, and upper respiratory tract
Exposure may cause allergy, asthma symptoms, or difficult breathing
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: (3*S*,3*aR*,4*S*,6*S*,6*aR*,7*S*,8*S*,9*bS*)-6-(Acetyloxy)-2,3,3*a*,4,5,6,6*a*,7,8,9*b*-decahydro-3,3*a*-dihydroxy-3,6,9-trimethyl-8-[[*(2Z)*-2-methyl-1-oxo-2-buten-1-yl]oxy]-2-oxo-4-(1-oxobutoxy)azuleno[4,5-*b*]furan-7-yl ester octanoic acid

Synonyms:

Hazardous Ingredient: Thapsigargin
CAS Registry Number: 67526-95-8
Molecular Weight: 650.75
Molecular Formula: C₃₄H₅₀O₁₂

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: 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

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 or solid film

Color: clear

Odor: white to off-white or light yellow

Melting point/Melting range: not determined

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 µM; buffers, serum, or other additives may increase or decrease the aqueous solubility

Solvent content: none

Organic solvents: soluble in DMSO at 100 mg/mL; soluble in ethanol at 2.5 mg/mL with warming

SECTION 10. STABILITY AND REACTIVITY:

Stability: avoid acids and bases

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

SECTION 11. TOXICOLOGICAL INFORMATION:

RTECS #: RH0352700

Acute toxicity: subcutaneous toxicity (TDLo): 2 mg/kg (mouse); *in vitro* toxicity toxicity (IC50): 0.5 µmol/L (dog kidney); *in vitro* toxicitytoxicity (ICLo): 0.5 µmol/L (dog kidney)

Primary irritant effect:

On the skin: causes skin irritation, may be harmful if absorbed through the skin

On the eye: causes eye irritation

Inhalation: causes respiratory tract irritation; may cause allergy, asthma symptoms, or difficult breathing; may be harmful if inhaled

Ingestion: may be 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:

UN number: 2811

DOT: Toxic solid, organic, n.o.s. (Thapsigargin), Class: 6.1, Packing group: II

IMDG: Toxic solid, organic, n.o.s. (Thapsigargin), Class: 6.1, Packing group: II

IATA: Toxic solid, organic, n.o.s. (Thapsigargin), Class: 6.1, Packing group: II

SECTION 15. REGULATORY INFORMATION:

Code letter and hazard designation of product:

Xi: Irritant

EU Risk And Safety phrases:

S22: Do not breathe dust

S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

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

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

R36/37/38: Irritating to eyes, respiratory system and skin

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