

Safety Data Sheet

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

SECTION 1. IDENTIFICATION:

Trade name: Paclitaxel
Product Number: [P-9600](#)
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; Irritant
Harmful if swallowed, inhaled, or by skin absorption
Ingestion may cause leukopenia/neutropenia (different types of reduced white blood cell counts), thrombocytopenia (reduced blood platelets), anemia, pyrexia (fever), nausea, vomiting, diarrhea, mucositis (inflammation/ulceration of the mucous membranes lining the digestive tract, especially mouth sores), dysgeusia (taste alteration), edema (swelling), myalgia/arthralgia (muscle and joint pain), asymptomatic sinus bradycardia (unusually slow heart beat) and other cardiac disturbances, neurotoxicity/peripheral neurosensory manifestations (numbness/tingling in fingers and toes), elevated liver enzymes (AST/ALT) Causes irritation of the skin and eyes; may cause allergic skin reaction
May cause respiratory irritation
May be harmful to the unborn child and may impair fertility
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



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: ($\beta R, \beta S$)- β -(benzoylamino)- β -hydroxy-(2*aR*,4*S*,4*aS*,6*R*,9*S*,11*S*,12*S*,12*aR*,12*bS*)-6,12*b*-bis(acetyloxy)-12-(benzoyloxy)-2*a*,3,4,4*a*,5,6,9,10,11,12,12*a*,12*b*-dodecahydro-4,11-dihydroxy-4*a*,8,13,13-tetramethyl-5-oxo-7,11-methano-1*H*-cyclodeca[3,4]benz[1,2-*b*]oxet-9-yl ester benzenepropanoic acid

Synonyms: Abraxane, BMS-181339, Capxol, Cyclopax, Cynviloq, Genaxol,

Genetaxyl, Genexol, Intaxel, Mitotax, Onxal, Pacliex, Paxene, Taxol

Hazardous Ingredient: Paclitaxel

CAS Registry Number: 33069-62-4

Molecular Weight: 853.91

Molecular Formula: $C_{47}H_{51}NO_{14}$

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 to remove bulk material; 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: white

Odor: none

Melting point or range: 210-220 °C

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 200 mg/mL; soluble in ethanol at 40 mg/mL

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 #: DA8340700

Acute toxicity: intraperitoneal toxicity (LD50): 128 mg/kg (mouse), 32.53 mg/kg (rat); intravenous toxicity (LD50): 7.53-12 mg/kg (mouse), 85 mg/kg (rat)

Primary irritant effect:

On the skin: causes skin irritation; may cause allergic skin reaction; may be harmful if absorbed through the skin

On the eye: causes serious eye damage

Inhalation: may be an irritant; harmful if inhaled

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:

UN number: 2811

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

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

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

SECTION 15. REGULATORY INFORMATION:

Code letter and hazard designation of product:

Xn: Harmful; Xi: Irritant

S22: Do not breathe dust

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

S36/37: 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)

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

R36/38: Irritating to eyes and skin

R46: May cause heritable genetic damage

R48: Danger of serious damage to health by prolonged exposure

R60: May impair fertility

R61: May cause harm to the unborn child

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 for any damage resulting from use of this material

Reviewed: July 1, 2019