

Safety Data Sheet

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

SECTION 1. IDENTIFICATION:

Trade name: Oxaliplatin
Product Number: [O-7111](#)
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
Substance Class Identifier: Tumorigen; Drug; Mutagen; Human Data
Harmful if inhaled, swallowed, or absorbed through the skin
Ingestion may result in vomiting, nausea, diarrhea, bone marrow suppression, anemia, leukopenia (reduction in white blood cells), pancytopenia (reduction in platelets and red/white blood cells), nervous system/brain toxicity
Harmful to unborn child
Causes irritation of the skin, eyes, and respiratory tract and allergic respiratory and skin reaction
Prolonged or repeated exposure may damage the kidneys, reproductive system, liver, bone marrow, ears (hearing loss), peripheral nervous system, and gastrointestinal system
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: (SP-4-2)-[(1R,2R)-1,2-cyclohexanediamine-κN1,κN2][ethanedioato(2-)-κO1,κO2]-platinum
Synonyms: D01790, Dacplat, Eloxatin, Eloxatine, Elplat, Foloxatine, Lipoxal, NSC-266046, 1-OHP, Oxalatoplatin, Oxalatoplatinum, RP 54780, Transplatin
Hazardous Ingredient: Oxaliplatin
CAS Registry Number: 61825-94-3
Molecular Weight: 397.29

Molecular Formula: C₈H₁₄N₂O₄Pt

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: white to off-white

Odor: none

Melting point/Melting range: not tested

Danger of explosion: none

Solubility in / Miscibility with water: soluble in water at 4 mg/mL

Solvent content: none

Organic solvents: soluble in DMSO at 20 mg/mL; very slightly soluble in methanol; insoluble 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 #: TP2275850

Acute toxicity: intraperitoneal toxicity (LD50): 19.8 mg/kg (mouse); 14.3 mg/kg (rat)

Primary irritant effect:

On the skin: causes mild to severe skin irritation; harmful if absorbed through the skin

On the eye: causes mild to severe eye irritation

Inhalation: harmful if inhaled; causes respiratory tract irritation

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:

Proper shipping name: Toxic solid, organic, n.o.s. (Oxaliplatin)

Hazard Class: 6.1

Packing group: II

IATA class:

Proper shipping name: Toxic solid, organic, n.o.s. (Oxaliplatin)

Hazard Class: 6.1

Packing group: II

SECTION 15. REGULATORY INFORMATION:

Code letter and hazard designation of product:

Xn: Harmful; Xi: Irritant

EU Risk And Safety phrases:

S22: Do not breathe dust

S36/37/39: Wear 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

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

R40: Limited evidence of a carcinogenic effect

R42/43: May cause sensitization by inhalation and skin contact

R60: May impair fertility

R61: May cause harm to the unborn child

R64: May cause harm to breastfed babies

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