

Safety Data Sheet

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

SECTION 1. IDENTIFICATION:

Trade name: Capecitabine
Product Number: [C-2799](#)
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: Toxic if swallowed or inhaled
Substance Class Identifier: Tumorigen; Drug; Human Data
May cause cancer
May be harmful to unborn child
Toxic to aquatic organisms, exposure may result in long-term adverse effects to aquatic environments
Exposure may cause adverse gastrointestinal, blood, and reproductive effects including suppression of bone marrow function, leukopenia (reduction of a certain type of white blood cells), vomiting, diarrhea, nausea, loss of appetite, degeneration of the testes, and possible risk of impaired fertility
Exposure causes irritation to the 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



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: 5'-Deoxy-5-fluoro-*N*-[(pentyloxy)carbonyl]-cytidine
Synonyms: Capecitabin, Capecitabine, Capecytidine, Capiibine, Captabin, Caxeta, 5'-Deoxy-5-fluoro-*N*-((pentyloxy)carbonyl)cytidine, Ro 09-1978, Xabine, Xeloda
Hazardous Ingredient: Capecitabine
CAS Registry Number: 154361-50-9
Molecular Weight: 359.35

Molecular Formula: $C_{15}H_{22}FN_3O_6$

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: 113-125 °C

Danger of explosion: none

Solubility in / Miscibility with water: soluble in water at 2 mg/mL with slight warming; buffers, serum, or other additives may increase or decrease the aqueous solubility

Solvent content:

Organic solvents: soluble in DMSO at 100 mg/mL; soluble in ethanol at 12.5 mg/mL with slight 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, and nitrogen oxides

SECTION 11. TOXICOLOGICAL INFORMATION:

RTECS #: HA3852500

Acute toxicity: oral toxicity (LD50): >2000 mg/kg (rat) - toxicity data from the Hoffman-La Roche MSDS dated December 9, 2010, 2007 for Capecitabine; oral toxicity (LDLo): 45 mg/kg (woman)

Primary irritant effect:

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

On the eye: causes eye irritation

Inhalation: may cause respiratory tract irritation; may be harmful if inhaled

Ingestion: may be harmful if swallowed

SECTION 12. ECOLOGICAL INFORMATION:

General notes: toxic to aquatic life

Strictly avoid contamination of the environment

SECTION 13. DISPOSAL CONSIDERATIONS:

Place material in a thick plastic hazardous waste disposal bag or leakproof container and label it CAUTION: HAZARDOUS CHEMICAL WASTE

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

SECTION 14. TRANSPORT INFORMATION:

UN number: 3077

DOT: Environmentally hazardous substance, solid, n.o.s. (Capecitabine), Class: 9, Packing group: III

IMDG: Environmentally hazardous substance, solid, n.o.s. (Capecitabine), Class: 9, Packing group: III

IATA: Environmentally hazardous substance, solid, n.o.s. (Capecitabine), Class: 9, Packing group: III

SECTION 15. REGULATORY INFORMATION:

Code letter and hazard designation of product:

T: Toxic; N: Dangerous to the environment

EU Risk And Safety phrases:

S22: Do not breathe dust

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

S61: Avoid release to the environment. Refer to special instructions/safety data sheets

R36/38: Irritating to eyes and skin

R45: May cause cancer

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

Reviewed: July 1, 2019