Safety Data Sheet

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

SECTION 1. IDENTIFICATION:

Trade name: Ceritinib, Free Base Product Number: <u>C-2086</u> 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: pharmaceutically active substance that has not been fully tested

May be harmful if swallowed, inhaled, or absorbed through the skin Ingestion may result in elevated liver enzymes (ALT/AST), nausea, diarrhea, anorexia (loss of appetite), vomiting, convulsion, pneumonia, interstitial lung disease/pneumonitis, respiratory failure, pneumothorax, dyspnea (shortness of breath), dehydration, hyperglycemia (high blood sugar), gastric hemorrhage, general physical health deterioration, pulmonary tuberculosis, cardiac tamponade, sepsis, prolonged QT interval (heart rhythm disorder), bradycardia (reduced heart rate), neuropathy comprised of paresthesia (sensation of tingling, tickling, prickling, pricking, or burning), asthenia (lack of muscle strength), gait disturbance, peripheral neuropathy, hypoesthesia (reduced sense of touch or sensation), dysesthesia (abnormal sense of touch), peripheral sensory neuropathy, neuralgia, peripheral motor neuropathy, hypotonia (decreased muscle tone), or polyneuropathy, and vision disorder comprised of vision impairment, blurred vision, photopsia (perception of flashing lights), accommodation disorder (inability of the eye to automatically change focus from distance to near objects), presbyopia (diminished ability to focus on near objects), or reduced visual acuity

Exposure may cause irritation of the skin, eyes, mucous membranes, and upper respiratory tract

Signal Word: Warning

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-Chloro-*N4*-[2-[(1-methylethyl)sulfonyl]phenyl]-*N2*-[5-methyl-2-(1-methylethoxy)-4-(4-piperidinyl)phenyl]-2,4-pyrimidinediamine Synonyms: LDK-378, Zykadia Hazardous Ingredient: Ceritinib, Free Base CAS Registry Number: 1032900-25-6 Molecular Weight: 558.14 Molecular Formula: C₂₈H₃₆ClN₅O₃S

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 liquidbinding 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:

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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: Odor: Melting point/Melting range: not tested Danger of explosion: none Solubility in / Miscibility with water: not determined Solvent content: Organic solvents: soluble in DMSO

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 #: not available

Acute toxicity: oral toxicity (LD0): 250 mg/kg (cynomolgus monkey) - toxicity data from the Novartis MSDS dated April 30, 2014 for Zykadia Primary irritant effect:

On the skin: may be an irritant; may be harmful if absorbed through the skin On the eye: may be an irritant

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

SECTION 12. ECOLOGICAL INFORMATION:

General notes: This material may be very toxic to aquatic organisms if it is directly released into the environment

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

SECTION 15. REGULATORY INFORMATION:

Code letter and hazard designation of product: 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

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