

# Safety Data Sheet

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

### SECTION 1. IDENTIFICATION:

Trade name: Crizotinib, Free Base  
Product Number: [C-7900](#)  
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  
May be harmful if swallowed, inhaled, or by skin absorption  
Causes serious eye irritation  
May cause irritation of the skin respiratory tract, and digestive tract  
Ingestion may result in severe allergic reactions ( such as rash, hives, itching, difficulty breathing, tightness in the chest, swelling of the mouth, face, lips, or tongue), burning, numbness, or tingling, changes in sense of touch, chest pain, coughing up blood, syncope (fainting), irregular heartbeat, mouth sores or swelling, severe or persistent dizziness, severe or unusual swelling, dyspnea (shortness of breath), symptoms of infection (such as fever, chills, persistent sore throat or cough), symptoms of liver problems (such as dark urine, persistent loss of appetite, right-sided stomach pain, severe or persistent tiredness, nausea, or vomiting, yellowing of the skin or eyes), trouble swallowing, unusual bruising or bleeding  
Exposure may result in genetic defects  
Signal Word: Danger

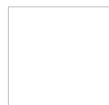
#### GHS Hazard Statements:

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: 3-[(1*R*)-1-(2,6-Dichloro-3-fluorophenyl)ethoxy]-5-[1-(4-piperidinyl)-1*H*-pyrazol-4-yl]-2-pyridinamine  
Synonyms: PF-02341066, PF-1066, PF-2341066, Xalkori  
Hazardous Ingredient: Crizotinib, Free Base  
CAS Registry Number: 877399-52-5

Molecular Weight: 450.34

Molecular Formula:  $C_{21}H_{22}Cl_2FN_5O$

---

#### **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: off-white

Odor: none

Melting point/Melting range: 196-207 °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:

Organic solvents: soluble in DMSO at 25 mg/mL with warming; soluble in ethanol at 25 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, and nitrogen oxides

---

**SECTION 11. TOXICOLOGICAL INFORMATION:**

RTECS #: UR8154000

Acute toxicity: oral toxicity (TDLo): 3137.5 mg/kg (mouse)

Primary irritant effect:

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

On the eye: causes serious eye damage

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

Ingestion: may be harmful if swallowed

---

**SECTION 12. ECOLOGICAL INFORMATION:**

General notes: Very toxic to aquatic organisms

Releases to the environment should be avoided

Aquatic Toxicity: (Species, Method, End Point, Duration, Result) - toxicity data from the Pfizer MSDS dated April 19, 2013 for Crizotinib

*Cyprinodon variegatus* (Sheepshead Minnow) OECD LC50 96 Hours > 5.2 mg/L

*Skeletonema costatum* (Marine Diatom) OECD EC50 72 Hours < 0.10-0.19 mg/L

*Tisbe battagliai* (Marine Copepod) OECD EC50 48 Hours 0.66 mg/L

Bacterial Inhibition: (Inoculum, Method, End Point, Result)

Activated sludge OECD EC50 > 1000 mg/L

---

**SECTION 13. DISPOSAL CONSIDERATIONS:**

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. (Crizotinib), Class: 9,  
Packing group: III

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

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

---

**SECTION 15. REGULATORY INFORMATION:**

Code letter and hazard designation of product:

Xn: Harmful, Xi: Irritant; N: Dangerous to the environment

EU Risk And Safety phrases:

S22: Do not breathe dust

S24/25: Avoid contact with skin and eyes

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)

R41: Risk of serious damage to eyes

R43: May cause sensitization by skin contact

R50: Very toxic to aquatic organisms

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