Safety Data Sheet

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

SECTION 1. IDENTIFICATION:

Trade name: Selumetinib, Free Base

Product Number: <u>S-4490</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 ingredient

Harmful if swallowed

May be harmful if inhaled or absorbed through the skin

Ingestion has been shown to produce a number of adverse dermatological effects including papulopustular rash (skin eruption consisting of papules and pustules), xerosis (dry skin), pruritus (itching), fissures, telangiectasias (small dilated blood vessels near the surface of the skin or mucous membranes), hyperpigmentation, alopecia (hair loss), angular cheilitis (inflammatory lesion at the corner of the mouth), paronychia (infection at the base of the nails), and secondary bacterial infection by *Staphylococcus aureus*

Ingestion may also cause fatigue, nausea, vomiting, diarrhea, peripheral edema (swelling), and xerostomia (dry mouth)

Contact with the eyes may cause serious damage

May cause genotoxicity and have possible teratogenic effects

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-[(4-Bromo-2-chlorophenyl)amino]-4-fluoro-N/-(2-

hydroxyethoxy)-1-methyl-1*H*-benzimidazole-6-carboxamide

Synonyms:ARRY-142886, ARRY-886, AZD6244 Hazardous Ingredient: Selumetinib, Free Base

CAS Registry Number: 606143-52-6

Molecular Weight: 457.68

Molecular Formula: C₁₇H₁₅BrClFN₄O₃

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: 220-230 °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 25-50 μ M; buffers, serum, or

other additives may increase or decrease the aqueous solubility

Solvent content:

Organic solvents: soluble in DMSO at 200 mg/mL; soluble in ethanol at 2.5

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 #: not available

Acute toxicity: oral toxicity (LD50): >300 mg/kg (rat) - toxicity data from the

AstraZeneca MSDS dated August 31, 2007 for AZD6244

Primary irritant effect:

On the skin: causes skin irritation and sensitization

On the eye: causes serious eye damage Inhalation: may be 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:

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:

T: Toxic; Xi: Irritant

Hazard-determining components of labeling:

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

R22: Harmful if swallowed

R38: Irritating to skin

R41: Risk of serious damage to eyes

R43: May cause sensitization by skin contact

R48: Toxic: danger of serious damage to health by prolonged exposure

R62: Possible risk of impaired fertility

R63: Possible risk of harm to 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