

Vemurafenib, Free Base

CAT#: orb61192 [MSDS]

1. IDENTIFICATION:

Product name: Vemurafenib, Free Base

Product Number: orb61192

Manufacturer: Biorbyt Ltd.

2. HAZARD(S) IDENTIFICATION:

Hazard Description: Harmful; pharmaceutically active substance

Causes phototoxicity (skin irritation resulting from exposure to light)

May cause skin cancer

Ingestion may cause arthralgia (joint pain), rash, pruritus (itch), fatigue, headache, nausea, anorexia (decreased appetite), diarrhea, alopecia (hair loss), folliculitis (inflammation of hair follicles), keratoacanthoma (hair follicle skin tumor), cutaneous squamous cell carcinoma, photosensitivity, hypersensitivity, Stevens-Johnson syndrome and toxic epidermal necrolysis (two life-threatening skin conditions in which cell death causes the epidermis to separate from the dermis), uveitis (inflammation of the middle layer of the eye), QT prolongation (abnormal heart rate), serious hypersensitivity reactions including anaphylaxis (immune system disorder), and hepatotoxicity causing liver damage)

Signal Word: Warning

GHS Hazard Statements:

H302 - Harmful if swallowed

H313 - May be harmful in contact with skin

H333 - May be harmful if inhaled

H335 - May cause respiratory irritation

H350 - May cause cancer

GHS Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P264 - Wash skin thoroughly after handling

P280 - Wear protective gloves/eye protection/face protection

P314 - Get medical advice/attention if you feel unwell

3. COMPOSITION/INFORMATION ON INGREDIENTS:

ChemicalName: N-[3-[[5-(4-chlorophenyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]carbonyl]-2,4-difluorophenyl]-1-propanesulfonamide

Synonyms: PLX4032, R7204, RG7204, RO5185426, Zelboraf

Hazardous Ingredient: Vemurafenib, Free Base

CAS Registry Number: 918504-65-1

Molecular Weight: 489.92

Molecular Formula: C23H18ClF2N3O3S

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

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.

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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Personal protective equipment as follows:

Breathing equipment: NIOSH/MSHA-approved respirator

Protection of hands: chemical-resistant rubber gloves

Eye protection: chemical safety goggles

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form: crystalline solid; granular or powder

Color: white to off-white

Odor: none

Melting point/Melting range: 262-275 °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 µM; buffers, serum, or other additives may increase or decrease the aqueous solubility

Solvent content:

Organic solvents: soluble in DMSO at 100 mg/mL; very poorly soluble in ethanol

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

11. TOXICOLOGICAL INFORMATION:

RTECS #: not available

Acute toxicity: oral toxicity (LD50): >2500 mg/kg (rat) - toxicity data from the Hoffmann-La Roche MSDS dated October 19, 2011 for Zelboraf

Primary irritant effect:

On the skin: phototoxic, may cause skin irritation, may be harmful if absorbed through the skin

On the eye: may cause eye irritation

Inhalation: may be harmful if inhaled

Ingestion: harmful if swallowed

12. ECOLOGICAL INFORMATION:

General notes: no data available

Treat as potentially toxic if released into the environment

13. DISPOSAL CONSIDERATIONS:

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

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

15. REGULATORY INFORMATION:

Code letter and hazard designation of product:

Xn: Harmful

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
S45:	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
R22:	Harmful if swallowed

16. OTHER INFORMATION:

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