

Bosutinib, Free Base

Catalog Number: orb153604

Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product name: Bosutinib, Free Base

Catalog No.: orb153604

Details of the supplier of the safety data sheet

Company: Biorbyt Ltd.

Tel: +44 (0)1223 859 353

Fax: +44 (0)1223 280 240

SECTION 2. HAZARD(S) IDENTIFICATION:

Hazard Description: Irritant

Substance Class Identifier: Drug

May be harmful if inhaled, swallowed, or absorbed through the skin

Exposure may result in nausea, vomiting, diarrhea, abdominal pain, thrombocytopenia (decreased blood platelets), anemia, and neutropenia (reduction of a certain type of white blood cells)

Irritating to eyes

May be irritating to skin, mucous membranes, and respiratory system

Signal Word: Warning

GHS Hazard Statements:

H303 - May be harmful if swallowed

H313 - May be harmful in contact with skin

H320 - Causes eye irritation

H333 - May be harmful if inhaled

H335 - May cause respiratory irritation

H413 - May cause long lasting harmful effects to aquatic life

GHS Precautionary Statements:

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

P264 - Wash skin thoroughly after handling

P273 - Avoid release to the environment

P280 - Wear protective gloves/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor/physician

P337 + P313 - If eye irritation persists: Get medical advice/attention



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: 4-((2,4-Dichloro-5-methoxyphenyl)amino)-6-methoxy-7-(3-(4-methyl-1-piperazinyl)propoxy)3-quinolinecarbonitrile

Synonyms: Bosulif, SKI-606

Hazardous Ingredient: Bosutinib, Free Base

CAS Registry Number: 380843-75-4

Molecular Weight: 530.45

Molecular Formula: C₂₆H₂₉Cl₂N₅O₃

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: chemical-resistant rubber gloves

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: 210-221 °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 10-50 µM; buffers, serum, or other additives may increase or decrease the aqueous solubility

Solvent content: none

Organic solvents: soluble in DMSO at 200 mg/mL; soluble in ethanol at 25 mg/mL with warming

SECTION 10. STABILITY AND REACTIVITY:

Stability: stable if stored as directed; avoid strong oxidizing agents

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, carbon dioxide, and nitrogen oxides

SECTION 11. TOXICOLOGICAL INFORMATION:

RTECS #: VB0990000

Acute toxicity: intravenous toxicity (TDLo): 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 eye irritation

Inhalation: may cause irritation to mucous membranes and upper respiratory tract; may be harmful if inhaled
Ingestion: may be harmful if swallowed

SECTION 12. ECOLOGICAL INFORMATION:

May cause long lasting harmful effects to aquatic life
Avoid release into the environment
Runoff from fire control or dilution water may cause pollution

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: Xi: Irritant
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
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection
R36: Irritating to eyes