

## Sorafenib, Free Base

Cat#: orb61100 (SDS)

### SECTION 1. HAZARD(S) IDENTIFICATION:

Hazard Description: Pharmaceutical compound

RTECS Substance category: Tumorigen; Drug; Human Data

May be harmful by inhalation, ingestion, or absorption through the skin

Exposure may result in hypertension, rash/skin reaction, diarrhoea, fatigue, alopecia (hair loss), anorexia (loss of appetite), nausea, vomiting, and anorexia (decrease appetite)

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

Signal Word: Warning

#### GHS Hazard Statements:

H303 - May be harmful if swallowed

H313 - May be harmful in contact with skin

H333 - May be harmful if inhaled

H335 - May cause respiratory irritation

#### GHS Precautionary Statements:

P260 - Do not breathe 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



### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: 4-[4-[[4-chloro-3-(trifluoromethyl)phenyl] carbamoylamino]phenoxy]-N-methylpyridine-2-carboxamide

Synonyms: Bay 43-9006, Nexavar

Hazardous Ingredient: Sorafenib, Free Base

CAS Registry Number: 284461-73-0

Molecular Weight: 464.82

Molecular Formula: C<sub>21</sub>H<sub>16</sub>ClF<sub>3</sub>N<sub>4</sub>O<sub>3</sub>

### SECTION 3. 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 4. 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 5. 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 12

### SECTION 6. 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 7. 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 8. PHYSICAL AND CHEMICAL PROPERTIES:**

Form: crystalline solid; granular or powder

Color: off-white

Odor: none

Melting point/Melting range: 199-211 °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 3.3 mg/mL with warming

#### **SECTION 9. 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 10. TOXICOLOGICAL INFORMATION:**

RTECS #: US4588870

Acute toxicity: oral toxicity (TDLo): 2.84-360 mg/kg (human), 135-315 mg/kg (mouse); intraperitoneal toxicity (TDLo): 250-420 mg/kg (mouse)

Primary irritant effect:

On the skin: may be a n 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 11. ECOLOGICAL INFORMATION:**

General notes: no data available

Treat as potentially toxic if released into the environment

#### **SECTION 12. DISPOSAL CONSIDERATIONS:**

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

#### **SECTION 13. 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 14. 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

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)