

### AZD6244

#### EFFECTIVE DATE: 2015-05-08

### **1** Product and Company Identification

- 1.1 Product Name: AZD6244
- **1.2 Product Identifier:** 5-[(4-bromo-2-chlorophenyl)amino]-4-fluoro-N-(2hydroxyethoxy)-1-methyl-1H-benzimidazole-6-carboxamide
- **1.3 Catalog Number:** 72992, 72994
- 1.4 Product Use: Laboratory Chemical
- 1.5
   Manufacturer/Supplier:
   STEMCELL Technologies

   Suite 500-1618
   Station Street

   Vancouver, British
   Columbia

   V6A
   1B6
- 1.6 In Case of Emergency Call: 1-800-667-0322

## 2 Hazards Identification

## 2.1 Classification of the substance or mixture

Serious Eye Damage/Eye Irritation, Category 1 Skin Sensitization, Category 1 Toxic To Reproduction, Category 2 Target Organ Systemic Toxicity (repeated exposure), Category 2

### 2.2 Label elements

## Pictogram



Danger

Hazard statement(s)	
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to {Liver, gastrointestinal tract and other major organs} through prolonged or repeated exposure.
Precautionary statement(s)	
P280	Wear {protective gloves/protective clothing/eye protection/face protection}.
P272	Contaminated work clothing should not be allowed out of the workplace.
P363	Wash contaminated clothing before reuse.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
P260	Do not breathe {dust/fume/gas/mist/vapours/spray}.



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	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a {POISON CENTER/doctor/}.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P333+313	If skin irritation or rash occurs, seek medical advice/attention.
	P308+313	IF exposed or concerned: Get medical attention/advice.
	P314	Get medical attention/advice if you feel unwell.
2.3	Other hazards	No data available

## 3 Composition / Information on Ingredients

## 3.1 Substances

Synonyms	5-[(4-bromo-2-chlorophenyl)amino]-4-fluoro-N-(2- hydroxyethoxy)-1-methyl-1H-benzimidazole-6-carboxamide; ARRY-142886; Cl-1040; NSC 741O78; Selumetinib; G 00039805	
Molecular formula	$C_{17}H_{15}BrClFN_4O_3$	
Molecular weight	457.7	

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
5-[(4-bromo-2-chlorophenyl)amino]-4-fluoro-N-(2- hydroxyethoxy)-1-methyl-1H-benzimidazole-6-carboxa	606143-52-6 mide	100%	N/A

## 4 First Aid Measures

#### 4.1 Description of first aid measures

#### 4.1.1 If inhaled

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

#### 4.1.2 In case of skin contact

Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

#### 4.1.3 In case of eye contact

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

#### 4.1.4 If swallowed

Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

#### 4.2 Most important symptoms and effects, both acute and delayed

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



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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.

The toxicological properties of this product have not been fully evaluated.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## 5 Fire Fighting Measures

## 5.1 Extinguishing Media

## 5.1.1 Suitable Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

## 5.1.2 Unsuitable Extinguishing Media

A solid water stream may be inefficient.

#### 5.2 Special hazards arising from the substance or mixture

## 5.2.1 Flammable Properties and Hazards

- No data available
- 5.2.2 Flash Pt No data available

# 5.2.3 Autoignition Pt No data available

#### 5.2.4 Explosive Limits LEL: No data available

UEL: No data available

## 5.2.5 Hazardous Combustion Products

No data available

#### 5.3 Fire Fighting Instructions

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

## 6 Accidental Release Measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Avoid raising and breathing dust, and provide adequate ventilation.

As conditions warrant, wear a NIOSH approved (or equivalent) self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

#### 6.2 Environmental precautions

Take steps to avoid release into the environment, if safe to do so.



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### 6.3 Methods and materials for containment and cleaning up

Contain spill and collect, as appropriate.

Transfer to a chemical waste container for disposal in accordance with local regulations.

## 7 Handling and Storage

## 7.1 Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.

#### 7.2 Conditions for safe storage

Keep container tightly closed. Store in accordance with information listed on the product insert.

## 8 Exposure Controls/Personal Protection

#### 8.1 Exposure limits

Component	CAS #	Value	Control parameters
5-[(4-bromo-2-chlorophenyl)amino]-4- fluoro-N-(2-hydroxyethoxy)-1-methyl- 1H-benzimidazole-6-carboxamide	606143-52-6	No data available	No data available

#### 8.2 Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

#### 8.3 Personal protective equipment

8.3.1 Eye/face protection

Safety glasses

#### 8.3.2 Skin protection

Compatible chemical-resistant gloves Lab coat

8.3.3 Respiratory protection

NIOSH (US) or CEN (EU) approved respirator, as conditions warrant.

## 8.3.4 General hygiene considerations

Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Wash thoroughly after handling.

## 8.3.5 Environmental exposure controls

No data available

## 9 Physical and Chemical Properties

## 9.1 Information on basic physical and chemical properties



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Appearance	A crystalline solid
Odour	No data available
Odour threshold	No data available
рН	No data available
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	~0.5 mg/mL in 1:1 DMSO:PBS (pH 7.2); ~20 mg/mL in DMSO; ~16 mg/mL in DMF
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

# 10 Stability and Reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable
10.3 Possibility of hazardous read	ctions No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Acids Bases
10.6 Hazardous decomposition p	roducts Carbon dioxide Carbon monoxide Nitrogen oxides

## **11 Toxicological Information**

#### 11.1 Acute toxicity

Oral:Oral LD50 (rat): > 300 mg/kgInhalation:No data availableDermal:No data availableOther:No data available

## **11.2 Skin corrosion/irritation** No data available

**11.3 Serious eye damage/eye irritation** No data available



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11.4 Respiratory and/or skin sensitization

No data available

11.5 Germ cell mutagenicity No data available

# 11.6 Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## 11.7 Reproductive toxicity

No data available

- **11.8 Specific target organ toxicity single exposure** No data available
- **11.9 Specific target organ toxicity repeated exposure** No data available

#### 11.10 Aspiration hazard

No data available

#### 11.11 Potential health effects

Inhalation: Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation. May cause respiratory irritation.

- Ingestion: May be harmful by ingestion.
- Skin: May cause an allergic skin reaction. May be harmful by skin absorption.
- Eyes: Causes serious eye damage.

### 11.12 Signs and symptoms of exposure

Contains a potent pharmaceutically active ingredient; Substance not fully tested, handle with care.

May cause damage to {Liver, gastrointestinal tract and other major organs} through prolonged or repeated exposure.

Suspected of damaging fertility or the unborn child.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

11.13 RTECS # No data available

## **12 Ecological Information**

12.1 Toxicity	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Other adverse effects	No data available



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#### **13 Disposal Considerations**

### 13.1 Waste disposal method

Dispose in accordance with local, provincial/state, and federal regulations.

## **13.2 Contaminated packaging** Dispose of as unused product.

## **14 Transport Information**

14.1 UN number	No data available
14.2 UN proper shipping name	DOTNot dangerous goodsADR/RIDNot dangerous goodsIMDGNot dangerous goodsIATANot dangerous goods
14.3 Transport hazard class(es)	No data available
14.4 Packing group	No data available
14.5 Environmental hazards	No data available
14.6 Special precautions	No data available

## **15 Regulatory Information**

## 15.1 US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)
5-[(4-bromo-2-chlorophenyl)amino]-4-fluoro- N-(2-hydroxyethoxy)-1-methyl-1H- benzimidazole-6-carboxamide	606143-52-6	No	No	No

#### 15.2 Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP, ODC	CWA NPDES	TSCA	CA PROP.65
5-[(4-bromo-2-chlorophenyl)amino]-4-fluoro- N-(2-hydroxyethoxy)-1-methyl-1H- benzimidazole-6-carboxamide	606143-52-6	No	No	No	No

#### 15.3 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

#### 15.4 Canada

Not WHIMIS controlled

This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

## **16 Other Information**

**16.1 Prepared by:** Quality Control, STEMCELL Technologies Inc.



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16.2	Revision:	N/A
16.3	Notice:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Safety Data Sheet (SDS) is current as of the Effective Date shown in this document and may be subject to amendment by STEMCELL Technologies Inc.
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