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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Bosulif (Bosutinib) Film Coated Tablets

Trade Name: BOSULIF

Compound Number: WAY-173606; SKI-606 Chemical Family: WAY-173606; SKI-606

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product

Details of the Supplier of the Safety Data Sheet

Pfizer Inc Pfizer Ltd
Pfizer Pharmaceuticals Group Ramsgate Road
235 East 42nd Street Sandwich, Kent
New York, New York 10017 CT13 9NJ
1-800-879-3477 United Kingdom

00-879-3477 United Kingdom +00 44 (0)1304 616161

Emergency telephone number: Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300 International CHEMTREC (24 hours): +1-703-527-3887

Contact E-Mail: pfizer-MSDS@pfizer.com

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture GHS - Classification

Skin Sensitization: Category 1 Acute aquatic toxicity: Category 1 Chronic aquatic toxicity: Category 1

EU Classification:

EU Indication of danger: Irritant

Dangerous for the Environment

EU Risk Phrases:

R43 - May cause sensitization by skin contact.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Label Elements

Signal Word: Warning

Hazard Statements: H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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Precautionary Statements: P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention P321 - Specific treatment (see supplemental first aid instructions on this label)

P363 - Wash contaminated clothing before reuse

P391 - Collect spillage

P501 - Dispose of contents/container in accordance with all local and national regulations

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Other Hazards
Australian Hazard Classification
(NOHSC):

No data available

Hazardous Substance. Dangerous Goods.

Note:

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Bosutinib monohydrate	918639-08-4	Not Listed	Xi;R43 N;R50/53	Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	69

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Opadry II yellow	Not Assigned	Not Listed	Not Listed	Not Listed	*
Croscarmellose sodium	74811-65-7	Not Listed	Not Listed	Not Listed	*
Povidone	9003-39-8	Not Listed	Not Listed	Not Listed	*
Opadry II Red	Not Assigned	Not Listed	Not Listed	Not Listed	*
Magnesium Stearate	557-04-0	209-150-3	Not Listed	Not Listed	*
Lactose NF, monohydrate	64044-51-5	Not Listed	Not Listed	Not Listed	*
Poloxamer 188	106392-12-5	Not Listed	Not Listed	Not Listed	*
Cellulose microcrystalline	9004-34-4	Not Listed	Not Listed	Not Listed	*

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Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has

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been withheld as a trade secret.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of First Aid Measures

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Exposure: Identification and/or Section 11 - Toxicological Information.

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5. FIRE FIGHTING MEASURES

Extinguishing Media: Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Formation of toxic gases is possible during heating or fire.

Products:

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Contain the source of spill if it is safe to do so. Collect spilled material by a method that

Collecting: controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

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Additional Consideration for

Large Spills:

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

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7. HANDLING AND STORAGE

Precautions for Safe Handling

Minimize dust generation and accumulation. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes, skin, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls. Refer to Section 12 - Ecological Information, for information on potential effects on the environment.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Specific end use(s): Pharmaceutical drug product

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

Bosutinib monohydrate

Pfizer OEL TWA-8 Hr: 40µg/m³, Sensitizer

Magnesium Stearate

ACGIH Threshold Limit Value (TWA) 10 mg/m³
Lithuania OEL - TWA 5 mg/m³
Sweden OEL - TWAs 5 mg/m³

Exposure Controls

Engineering Controls: Engineering controls should be used as the primary means to control exposures. General

room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne

contamination levels below the exposure limits listed above in this section.

Personal Protective Equipment:Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

Eyes: Wear safety glasses or goggles if eye contact is possible.

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

Respiratory protection: If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:TabletColor:Red and YellowOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:

PH:

No data available
No data available
No data available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Melting/Freezing Point (°C):

Boiling Point (°C):

No data available.

No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

Cellulose microcrystalline

No data available

Croscarmellose sodium

No data available Poloxamer 188 No data available

Povidone

No data available

Lactose NF, monohydrate

No data available

Magnesium Stearate

No data available

Opadry II Red

No data available

Opadry II yellow No data available

Bosutinib monohydrateMeasured 8 Log P 3.34

Decomposition Temperature (°C): No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available
No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties: No data available

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition No data available

Products:

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information: The information included in this section describes the potential hazards of the individual

ingredients

Short Term: May cause minimal eye irritation (based on animal data).

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11. TOXICOLOGICAL INFORMATION

Known Clinical Effects: Based on clinical trials in humans, possible adverse effects following exposure to this

compound may include: nausea, diarrhea, vomiting, fatigue, loss of appetite (anorexia), and

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skin rash.

Acute Toxicity: (Species, Route, End Point, Dose)

Bosutinib monohydrate

Mouse Oral LD50 > 2000 mg/kg Rat (M) Oral LD50 > 700mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

Irritation / Sensitization: (Study Type, Species, Severity)

Bosutinib monohydrate

Skin Corrosivity (In vitro, RHE) Human Negative

Eye Irritation (*In vitro*, BCOP) Negative Skin Sensitization - LLNA Mouse Positive

Skin Irritation Rabbit Negative Eye Irritation Rabbit Minimal

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Magnesium Stearate

13 Week(s) Rat Oral 1092 g/kg LOAEL Liver

Bosutinib monohydrate

1 Month(s) Rat Oral70 mg/kg/day NOAEL No effects at maximum dose 6 Month(s) Rat Oral 10 mg/kg/day NOAEL Gastrointestinal system Oral 5 mg/kg/day NOAEL No effects at maximum dose 1 Month(s) Dog 9 Month(s) Dog Oral 10 mg/kg/day NOAEL No effects at maximum dose

Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Bosutinib monohydrate

Reproductive & Fertility Rat Oral 3 mg/kg/day NOAEL Embryotoxicity, Maternal toxicity
Embryo / Fetal Development Rat Oral 10 mg/kg/day NOAEL No effects at maximum dose
Embryo / Fetal Development Rabbit Oral 10 mg/kg/day NOAEL Fetotoxicity, Maternal Toxicity

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Bosutinib monohydrate

Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

In Vivo Micronucleus Mouse Negative

In Vitro Chromosome Aberration Human Lymphocytes Negative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Bosutinib monohydrate

2 Year(s) Rat Oral (M) 2.5 / (F) 1.5 mg/kg/day LOAEL Not carcinogenic, Gastrointestinal system

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

D704400

PZ01420

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11. TOXICOLOGICAL INFORMATION

Povidone

IARC: Group 3 (Not Classifiable)

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties of the formulation have not been investigated. The following

information is available for the individual ingredients.

Toxicity:

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Bosutinib monohydrate

Pseudokirchneriella subcapitata (Green Alga) OECD ErC50 72 Hours 0.203 mg/L Pimephales promelas (Fathead Minnow) OECD NOEC 33 Days 0.066 mg/L Daphnia Magna (Water Flea) OECD NOEC 21 Days 0.145 mg/L

Bacterial Inhibition: (Inoculum, Method, End Point, Result)

Bosutinib monohydrate

Activated sludge OECD EC50 > 1000 mg/L

Terrestrial Toxicity: (Species, Method, End Point, Duration, Result)

Bosutinib monohydrate

Eisenia foetida (Earthworm) LC50 14 Days > 10 mg/kg

Folsomia candida (Collembola) OECD NOEC 28 Days 250 mg/kg

Persistence and Degradability:

Biodegradation: (Method, Inoculum, Biodeg Study, Result, Endpoint, Duration, Classification)

Bosutinib monohydrate

OECD Activated sludge Ultimate (CO2 Evolution) 0.2% After 28 Day(s)

Bio-accumulative Potential:

Partition Coefficient: (Method, pH, Endpoint, Value)

Bosutinib monohydrateMeasured 8 Log P 3.34

Mobility in Soil:

Sorption: (Method, Inoculum, Sorption Endpoint, Endpoint, Results)

Bosutinib monohydrate

OECD Activated sludge Adsorption Kd 3791 OECD Sediment Adsorption Kd 2262

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13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

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releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

This material is regulated for transportation as a hazardous material/dangerous good.

UN number: UN 3077

UN proper shipping name: Environmentally Hazardous Substance, Solid, n.o.s (Bosutinib)

Transport hazard class(es): 9
Packing group: III

5 kg/5L Exception:

Effective January 1, 2015, UN3082 and UN3077 materials contained in good quality packaging in the quantities listed below are not regulated as dangerous goods for transport by any mode:

- * Single packagings containing a net quantity of 5 liters or less for liquids or a net mass of 5 kg or less for solids.
- * Combination packagings containing a net quantity per inner packaging of 5 liters or less for liquids or a net mass of 5 kg or less for solids.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications
WHMIS hazard class:

D2b toxic materials



Bosutinib monohydrate

CERCLA/SARA 313 Emission reporting

California Proposition 65

EU EINECS/ELINCS List

Not Listed

Not Listed

Opadry II yellow

CERCLA/SARA 313 Emission reporting

Not Listed
California Proposition 65

Not Listed

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16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Material Name: Bosulif (Bosutinib) Film Coated Tablets

Revision date: 09-Mar-2015 Version: 5.0

Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction

Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life

Hazardous to the aquatic environment, chronic toxicity-Cat.1; H410 - Very toxic to aquatic life with long lasting effects

N - Dangerous for the environment

Xi - Irritant

R43 - May cause sensitization by skin contact.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Pfizer proprietary drug development information. Publicly available toxicity information. **Data Sources:**

Reasons for Revision: Updated Section 14 - Transport Information. Updated Section 2 - Hazard Identification.

Updated Section 3 - Composition / Information on Ingredients. Updated Section 7 - Handling and Storage. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 1 - Identification of the Substance/Preparation and the

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Company/Undertaking. Updated Section 16 - Other Information.

09-Mar-2015 **Revision date:**

Product Stewardship Hazard Communication

Pfizer Global Environment, Health, and Safety Operations Prepared by:

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet