

Safety Data Sheet (SDS) According to the REACH Regulation (EC) No. 1907/2006

**Issuing Date:** 2015-03-26 **Revision Date:** 2024-12-20 **Version:** 4

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product No 4765
Product name Gefitinib

## Contains

Chemical name Index No. CAS No N-(3-chloro-4-fluorophenyl)-7-methoxy-6-(3-morpholin-4-ylpropox Not Listed y)quinazolin-4-amine (90 - 100%)

Formula C22H24CIFN4O3 Molecular Weight 446.90 g/mol

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** For Research Use Only. Not for Use in Diagnostic Procedures.

## 1.3. Details of the supplier of the safety data sheet

Importer Manufacturer

Cell Signaling Technology Europe B.V. Cell Signaling Technology, Inc.

Dellaertweg 9b 3 Trask Lane
2316 WZ Leiden Danvers, MA 01923
The Netherlands United States

TEL: +31 (0)71 7200 200 TEL: +1 978 867 2300 FAX: +31 (0)71 891 0019 FAX: +1 978 867 2400

Website www.cellsignal.com E-mail Address info@cellsignal.eu

### 1.4. Emergency telephone number

**CHEMTREC** 24 hours a day, 7 days a week, 365 days a year +1 703 527 3887 (INTERNATIONAL) +1 800 424 9300 (NORTH AMERICA)

Europe 112

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# Regulation (EC) No. 1272/2008

Acute oral toxicity	Category 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)

Serious eye damage/eye irritation	Category 1 - (H318)
Carcinogenicity	Category 2 - (H351)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity - repeated exposure (STOT RE)	Category 2 - (H373)
Chronic aquatic toxicity	Category 2 - (H411)

### 2.2. Label elements



### Signal word Danger

### Hazard statement(s)

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

### Precautionary statement(s)

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

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

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

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 + P313 - IF exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER or doctor/physician.

P314 - Get medical advice/attention if you feel unwell.

P330 - Rinse mouth.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant.

### 2.3. Other hazards

Avoid contact during pregnancy/while nursing.

For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Synonyms Iressa

Formula C22H24CIFN4O3

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
N-(3-chloro-4-fluorophen yl)-7-methoxy-6-(3-morph olin-4-ylpropoxy)quinazoli n-4-amine		100	-	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Carc. 2 (H351) Repr. 2 (H361) STOT RE 2 (H373) Aquatic Chronic 2 (H411)	no data available

For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General advice Use first aid treatment according to the nature of the injury. When symptoms persist or in all

cases of doubt seek medical advice.

**Inhalation** Move to fresh air.

**Skin contact**Wash skin with soap and water. Remove and wash contaminated clothing before re-use. **Eye contact**Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Consult a physician.

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

Nausea. Diarrhea. Skin irritation. Dry skin. Rashes.

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

Notes to physician Treat symptomatically.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

surrounding environment
Unsuitable Extinguishing Media
No information available

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

Thermal decomposition can lead to release of irritating gases and vapors.

## 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

## **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders

Evacuate personnel to safe areas. Ensure adequate ventilation.

Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### 6.3. Methods and material for containment and cleaning up

Methods for containment Methods for cleaning up Prevent further leakage or spillage if safe to do so.

Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for

disposal. Avoid dust formation. Clean contaminated surface thoroughly.

#### 6.4. Reference to other sections

See Sections 8 & 13 for additional information.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Avoid dust formation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid contact during pregnancy/while nursing.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

## 7.3. Specific end use(s)

Use as a laboratory reagent.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Contains no substances with occupational exposure limit values.

### 8.2. Exposure controls

## Appropriate engineering controls

Showers, eyewash stations, and ventilation systems

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Safety glasses with side-shields.

**Skin protection** Wear protective gloves and protective clothing.

Hand protection Impervious gloves.

Other Wear suitable protective clothing.

**Respiratory protection** In case of inadequate ventilation wear respiratory protection.

### **Environmental Exposure Controls**

No information available

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state
Color
White to off-white
Odor
No information available

PropertyValuesRemarks • MethodpHNo information availableNo information available

Melting point/freezing point 180-203.5 °C

Boiling point or initial boiling point No information available No information available

and boiling range

Flash point

Evaporation rate

No information available

explosive limits

Vapor pressureNo information availableNo information availableRelative vapor densityNo information availableNo information availableDensity and/or relative densityNo information availableNo information available

**Solubility** Practically insoluble

Partition coefficient: n-octanol/water No information available No information available **Autoignition temperature** No information available No information available **Decomposition temperature** No information available No information available. **Viscosity** No information available No information available **Explosive properties** No information available No information available **Oxidizing properties** No information available No information available

9.2. Other information

Softening point No information available

Molecular Weight 446.90 g/mol

Solubility in other solvents Soluble in dimethyl sulfoxide (DMSO) @ 100 mg/mL

VOC content
Liquid Density

No information available
No information available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No information available.

## 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous polymerization** Hazardous polymerization does not occur.

Hazardous reactions None under normal processing

# 10.4. Conditions to avoid

None known based on information supplied.

## 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

None under normal use conditions

# **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound is not well defined.

## Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** Causes serious eye damage.

**Skin contact** Irritating to skin.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms Nausea. Diarrhea. Skin irritation. Dry skin. Rashes.

**Skin corrosion/irritation** Irritating to skin.

Serious eye damage/eye irritationRisk of serious damage to eyes.SensitizationNo information available.Mutagenic effectsNo information available.CarcinogenicityNo information available.

Reproductive toxicity

May damage fertility or the unborn child. Experiments have shown reproductive toxicity

effects on laboratory animals.

**STOT - single exposure**No information available.

STOT - repeated exposure Liver.

Aspiration Hazard No information available.

# 11.2. Information on other hazards

No information available.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
N-(3-chloro-4-fluorophenyl)-7-metho	EbC50 1.02 mg/L (Green algae) 72H	-	EC50 3.1 mg/L (Daphnia magna)
xy-6-(3-morpholin-4-ylpropoxy)quina	ErC50 >2.2 mg/L (Green algae) 72H		48H
zolin-4-amine			

## 12.2. Persistence and degradability

Not readily biodegradable <5% 28 day period

### 12.3. Bioaccumulative potential

**Bioaccumulation** Not likely to bioaccumulate.

Chemical name	Octanol-Water Partition Coefficient
N-(3-chloro-4-fluorophenyl)-7-methoxy-6-(3-morpholin-4-ylpropoxy)quina	3.2
zolin-4-amine	

Bioconcentration factor (BCF) No information available.

## 12.4. Mobility in soil

Mobility in soil: Low.

### 12.5. Results of PBT and vPvB assessment

No information available.

## 12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

#### 12.7. Other adverse effects

No information available

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Other information Waste codes should be assigned by the user based on the application for which the product

was used.

# **SECTION 14: Transport information**

IMDG/IMO

**14.1 UN number** UN3077

**14.2 UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (Gefitinib)

14.3Transport hazard class(es)914.4Packing groupIII14.5Environmental hazardsYes14.6Special precautions for userNone

14.7 Maritime transport in bulk Not regulated

according to IMO instruments

ADR/RID

**14.1 UN number** UN3077

**14.2 UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (Gefitinib)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for user
None

IATA

**14.1 UN number** UN3077

**14.2 UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (Gefitinib)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for user
None

# **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

This product does not contain Substances of Very High Concern (SVHC).

#### **SEVESO Directive Information**

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

### International inventories

TSCA 8(b) DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AICS -

#### International inventories legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out

## **SECTION 16: Other information**

## Full text of H-Statements referred to under Sections 2 and 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Classification procedure: Expert judgment and weight of evidence determination.

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**Disclaimer** 

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