

Safety Data Sheet (SDS) According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

SECTION 1. Identification

Product identifier

Product number 5083
Product name Erlotinib
Other means of identification 5083S

Recommended use of the chemical and restrictions on use

Identified uses This product is intended for research purposes only.

Uses advised againstThis product is not intended for use in diagnostic procedures or therapeutics.

This product is not intended for use in humans or animals.

Manufacturer, importer, supplier

Manufacturer address Cell Signaling Technology, Inc.

3 Trask Lane Danvers, MA 01923 United States TEL: +1 978 867 2300

FAX: +1 978 867 2400 www.cellsignal.com support@cellsignal.com

Company phone number 978-867-2300

Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

SECTION 2. Hazard(s) identification

Classification

Email address

Website

Acute oral toxicity	Category 4
Reproductive toxicity	Category 2
Specific target organ toxicity - repeated exposure (STOT RE)	Category 2

GHS Label elements, including precautionary statements





Signal Word Warning

Hazard statement(s)

Harmful if swallowed. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s)

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Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray.

IF exposed or concerned: Get medical advice/attention.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Store locked up.

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

Supplementary Hazard Information

No information available.

SECTION 3. Composition/information on ingredients

UNII-J4T82NDH7E;

4-Quinazolinamine, N-(3-ethynylphenyl)-6,7-bis(2-methoxyethoxy)-

Chemical Name	CAS No	Weight %
N-(3-ethynylphenyl)-6,7-bis(2-methoxyethoxy)quina	183321-74-6	100
zolin-4-amine		

SECTION 4. First-aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Move to fresh air.

Ingestion Clean mouth with water and afterwards drink plenty of water.

Most important symptoms and effects, both acute and delayed

Diarrhea, rash, hyperpigmentation or dry skin (occurs on the face, upper chest and back), hirsutism and brittle and loose nails, liver transaminase elevation, unexplained shortness of breath or cough, skin rash or development of bullous lesions or desquamation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Advice for emergency responders

General advice For further assistance, contact your local Poison Control Center.

Protection of first-aiders Ensure that medical personnel are aware of the material(s) involved, and take precautions

to protect themselves.

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

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Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Other information

Ensure adequate ventilation. No information available.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

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 and collect in suitable container for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

SECTION 7. Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Packaging material

Keep containers tightly closed in a dry, cool and well-ventilated place.

No information available.

Incompatible products None known based on information supplied.

SECTION 8. Exposure controls/personal protection

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Eye/face protection Skin and body protection Safety glasses with side-shields. Wear protective gloves/clothing.

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Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Handle in accordance with good industrial hygiene and safety practice. Hygiene measures

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid

Appearance Crystalline powder

Color White

Odor No information available **Odor Threshold** No information available No information available

167-180 °C Melting point/freezing point

Initial boiling point and boiling No information available

range

Flash point No information available. **Evaporation rate** No information available Flammability (solid, gas) No information available Upper flammability limit No information available. Lower flammability limit No information available. Vapor pressure No information available Vapor density No information available Relative density No information available

Solubility Partly soluble

Solubility in other solvents No information available Partition coefficient: n-octanol/waterNo information available No information available **Autoignition temperature** No information available. **Decomposition temperature Explosive properties** No information available Oxidizing properties No information available

Molecular Weight 393.44 g/mol

VOC content No information available **Viscosity** No information available. **Density** No information available.

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

SECTION 10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing. **Hazardous reactions** None under normal processing. Hazardous polymerization

Conditions to Avoid

No information available.

Incompatible Materials

None known based on information supplied.

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Hazardous Decomposition Products

None known based on information supplied.

SECTION 11. Toxicological information

Information on likely routes of exposure

Inhalation of particulates may cause mechanical irritation to upper respiratory tract. Inhalation

Eve contact Contact with eyes may cause mechanical irritation.

Skin contact Contact with skin may cause mild irritation.

Ingestion May be harmful if swallowed. Reproductive Toxicity. Target Organ Effects.

Information on toxicological effects

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 toxocological and physiological properties of this compound is not well defined.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
N-(3-ethynylphenyl)-6,7-bis(2-metho	1000 - 2000 mg/kg (Rat)	-	-
xyethoxy)quinazolin-4-amine			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Diarrhea, rash, hyperpigmentation or dry skin (occurs on the face, upper chest and back), **Symptoms**

hirsutism and brittle and loose nails, liver transaminase elevation, unexplained shortness of

breath or cough, skin rash or development of bullous lesions or desquamation.

No information available. Sensitization

Mutagenic effects The weight of evidence demonstrates that this material is not genotoxic.

No component of this product present at levels greater than or equal to 0.1% is identifiable Carcinogenicity

as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA. Did not

show carcinogenic effects in animal experiments

This material is classified as a Pregnancy Category D: Positive evidence of risk. Erlotinib Reproductive toxicity

has been shown to cause maternal toxicity resulting in embryo-fetal lethality and abortion in

rabbits when given during the period of organogenesis. Femal rats treated with 30

mg/kg/day of erlotinib had an increase in early resorptions that resulted in a decrease in the

number of live fetuses.

STOT - single exposure

No information available.

STOT - repeated exposure **Neurological effects**

Skin. Eyes. Respiratory system. Reproductive system. Liver.

Aspiration Hazard

No information available.

No information available.

SECTION 12. Ecological information

Ecotoxicity

Mobility

Product does not present an aquatic toxicity hazard based on known or supplied information.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
N-(3-ethynylphenyl)-6,7-bis(2-metho xyethoxy)quinazolin-4-amine	EC50 >100 mg/L (Selenastrum capricornutum)72H NOEC 1.39 mg/L (Selenastrum capricornutum)72H	LC50 > 100 mg/L (Danio rerio) 96 H	-

Persistence and degradability Bioaccumulation

Not readily biodegradable. 0% 28 day period: OECD 301C.

Not likely to bioaccumulate.

Is not likely mobile in the environment due its low water solubility

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Chemical Name	Octanol-Water Partition Coefficient
N-(3-ethynylphenyl)-6,7-bis(2-methoxyethoxy)quinazolin-4-amine	2.7

Other adverse effects

No information available.

SECTION 13. Disposal considerations

Waste Disposal Methods

Dispose of in accordance with all applicable national environmental laws and regulations.

Disposal considerations

Do not empty into drains; dispose of this material and its container in a safe way.

SECTION 14. Transport information

This material is not subject to regulation as a hazardous material for shipping.

SECTION 15. Regulatory information

North American Inventory Listing

Chemical Name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
N-(3-ethynylphenyl)-6,7-bis(2-m ethoxyethoxy)quinazolin-4-amin e		Not Listed	Not Listed	Not Listed

Canadian Workplace Hazardous Materials Information System (WHMIS) Classification

(T)	Class D2A - Very Toxic Material at >= 0.1% Class D2B - Toxic Material at >= 1%
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SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

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CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. FIFRA Label Information

This product does not contain any substances regulated as pesticides.

US Commerce Department - Export Administration Regulations Information

This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).

U.S. Drug Enforcement Administration Information

This product does not contain any substances regulated under the DEA.

SECTION 16. Other information

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet