

SAFETY DATA SHEET (SDS): According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

SECTION 1. Identification

Product identifier

Product No. 12961
Product name Axitinib
UN number UN3077
Other means of identification 12961S

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 TEL: +1 978 867 2300 FAX: +1 978 867 2400 www.cellsignal.com

Website www.cellsignal.com
Email address 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

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Germ cell mutagenicity	Category 2
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)

Suspected of causing genetic defects

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Obtain special instructions before use

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

Do not breathe dust

Use personal protective equipment as required

Avoid release to the environment

IF exposed or concerned: Get medical advice/attention

Supplementary Hazard Information

Hazards not otherwise classified (HNOC) Very toxic to aquatic life.

SECTION 3. Composition/information on ingredients

Formula C₂₂H₁₈N₄OS Molecular Weight 386.47

Chemical nature Monoconstituent substance

Synonyms Axitinib; Inlyta; AG 013736; Benzamide,

N-methyl-2-((3-((1E)-2-(2-pyridinyl)ethenyl)-1H-indazo)-6-yl)thio)-

Chemical Name	CAS No.	Weight %
N-methyl-2-[3-((E)2-pyridin-2-yl-vinyl)-1H-indazol-6-	319460-85-0	100
ylsulfanyl]-benzamide		

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, hypertension, fatigue, decreased appetite, nausea, dysphonia, palmar-plantar erythrodysesthesia (hand-foot) syndrome, weight decrease, vomiting, asthenia, and constipation

Indication of any immediate medical attention and special treatment needed

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.

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

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

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

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

conditions

Packaging material 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 protectionSafety glasses with side-shields.

Skin and body protection
Wear protective gloves/clothing.

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.

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

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid

AppearanceCrystalline powderOdorNo information availableColorWhite to off-whiteOdor ThresholdNo information available

pH No information available

Melting point/freezing point 213-224 °C

Initial boiling point and boiling

range

No information available

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

Molecular Weight 386.47

VOC contentNo information availableViscosityNo information availableDensityNo information available

SECTION 10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

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

Conditions to Avoid

No information available.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

SECTION 11. Toxicological information

Information on likely routes of exposure

InhalationThere is no data available for this product.Eye contactThere is no data available for this product.Skin contactThere is no data available for this product.IngestionTarget Organ Effects. Reproductive Toxicity.

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.

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

SymptomsNo information available.CorrosivityNo information available.SensitizationNo information available.

Mutagenic effects Genotoxic in the ivivomouse bone marrow micronucleus assay.

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

as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity

This material is classified as a Pregnancy Category D: Positive evidence of risk. In female

mice, reduced fertility and embryonic viability were observed at all doses tested (=15 mg/kg/dose administered orally twice daily) following at least 15 days of treatment. In repeat-dose toxicology studies, findings in the male reproductive tract were observed in the testes/epididymis (decreased organ weight, atrophy or degeneration, decreased numbers of germinal cells, hypospermia or abnormal sperm forms, reduced sperm density and count) at =15 mg/kg/dose administered orally twice daily in mice and =1.5 mg/kg/dose

administered orally twice daily in dogs.

STOT - single exposure No information available.

STOT - repeated exposure Subjects who received starting doses of 10 mg twice daily or 20 mg twice daily experienced

adverse reactions which included hypertension, seizures associated with hypertension, and fatal hemoptysis. Toxicities in bone and teeth were observed in immature mice and dogs

administered oral axitinib twice daily for 1 month or longer.

Target Organ Effects Reproductive system, Respiratory system, Heart, Skeletal system, Teeth.

Neurological effectsNo information available.Aspiration HazardNo information available.

SECTION 12. Ecological information

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
N-methyl-2-[3-((E)2-pyridin-2-yl-viny			-
l)-1H-indazol-6-ylsulfanyl]-benzamid	subcapitata) 72 h	variegatus) 96 h	
е			

Persistence and degradability OECD 21 Day(s) NOEC = 0.088 mg/L (Daphnia magna)

OECD 32 Day(s) NOEC = 0.0035 mg/L (Pimephales promelas).

BioaccumulationNo information available. **Mobility**No information available

Chemical Name	Octanol-Water Partition Coefficient
N-methyl-2-[3-((E)2-pyridin-2-yl-vinyl)-1H-indazol-6-ylsulfanyl]-benzamid	3.5
e	

Other adverse effects

Bacterial Inhibition: OECD EC50 > 1000 mg/L (Activated sludge).

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.

SECTOIN 14. Transport information

DOT

UN number UN3077

UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (Axitinib)

Transport hazard class(es) 9
Packing Group ||||

Special precautions for user 146, 335, A112, B54, B120, IB8, IP3, N20, T1, TP33

Emergency Response Guide 171

Number

IATA

UN number UN3077

UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (Axitinib)

Transport hazard class(es) 9
Packing Group III

Special precautions for user A158, A179, A97

IMDG/IMO

UN number UN3077

UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (Axitinib)

Transport hazard class(es) 9
Packing group III
EmS No. F-A, S-F

Special precautions for user 274, 335, 966, 967

SECTION 15. Regulatory information

North American Inventory Listing

Component	TSCA	DSL	NDSL
N-methyl-2-[3-((E)2-pyridin-2-yl-vinyl)- 1H-indazol-6-ylsulfanyl]-benzamide 319460-85-0 (100)	Not Listed	Not Listed	Not Listed

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 HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

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).

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. EPA Label Information

This product does not contain any substances regulated as pesticides.

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