

## Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/02/2025

Revision date 05/28/2025

### **1** Identification · Product identifier • Trade name: Erlotinib-d6 (hydrochloride) • Synonym N-(3-ethynylphenyl)-6,7-bis[2-(methoxy-d3)ethoxy]-4-quinazolinamine, monohydrochloride · CAS Number: 1189953-78-3 · Other means of identification · Article number: 22101 · Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. · Details of the supplier of the safety data sheet Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA · Information department: Product safety department · Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification · Classification of the substance or mixture GHS06 Skull and crossbones Acute toxicity - oral 3 H301 Toxic if swallowed. GHS08 Health hazard

Carcinogenicity 2 Reproductive toxicity 1A Specific target organ toxicity (repeated exposure) 1 H372 H351 Suspected of causing cancer. H360-H362 May damage fertility or the unborn child. May cause harm to breast-fed children. Causes damage to organs through prolonged or repeated exposure. (Contd. on page 2)

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GHS09 Enviro	nment			
Aquatic Chronic 2		H411	Toxic to aquatic life with long lasting effects.	
GHS07				
		11045		
Skin irritation 2		H315	Causes skin irritation.	
Eye irritation 2A		H319	Causes serious eye irritation.	
Sensitization - skin 1		H317	May cause an allergic skin reaction.	
Specific target organ to:	xicity (single exposure) 3	H335	May cause respiratory irritation.	
· Label elements				
<ul> <li>GHS label elements</li> </ul>				
	fied and labeled according	to the Globa	ally Harmonized System (GHS).	
• Hazard pictograms				
$\land$				
GHS06 GHS07 GH	S08 GHS09			
• Signal word Danger				
<ul> <li>Hazard statements H301 Toxic if swa</li> </ul>	llowed			
H315 Causes ski				
	ious eye irritation.			
	an allergic skin reaction.			
	of causing cancer.			
		d. May caus	e harm to breast-fed children.	
	respiratory irritation.			
	nage to organs through pro uatic life with long lasting ef		epeated exposure.	
· Precautionary stateme		IECIS.		
	in special instructions befor	re use.		
			ave been read and understood.	
	ot breathe dusts or mists.			
	P263 Avoid contact during pregnancy and /while nursing.			
	h thoroughly after handling.		product	
	ot eat, drink or smoke when			
	0			
P280 Wea	r protective gloves/protec	tive clothing	g/eye protection/face protection/hearing	
P301+P310 If sw	allowed: Immediately call a		ter/doctor.	
P321 Spec	cific treatment (see on this I			
	330 Rinse mouth.			
	skin: Wash with plenty of w		keen comfortable for breathing	
P304+P340 If inh	ialed: Remove person to fr	esn air and	keep comfortable for breathing. (Contd. on page 3)	
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	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.
P312	Call a poison center/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
<ul> <li>Information parts</li> </ul>	aining to particular dangers for man and environment:
Classification sy	stem:
	stem:
Classification sy NFPA ratings (sc	stem: ale 0 - 4)
Classification system NFPA ratings (sc Heal	stem: ale 0 - 4) th = 2
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Classification system     NFPA ratings (sc         NFPA ratings (sc         Heal         Fire         Read     HMIS-ratings (sc         HEALTH *2         Heal         Fire         Fire         Fire	stem: ale 0 - 4) th = 2 = 0 ctivity = 0 ale 0 - 4) other = *2

### · Other hazards

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Classification according to (d)(1)(ii) of § 1910.1200
- The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.
- **Hazards not otherwise classified** There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

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

- · Chemical characterization: Substances
- · CAS No. Description

1189953-78-3 Erlotinib-d6 (hydrochloride)

### 4 First-aid measures

### · Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

### • After inhalation:

Supply fresh air and to be sure call for a doctor.

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- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- Most important symptoms and effects, both acute and delayed
   No further relevant information available.
   Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **5 Fire-fighting measures**

- · Extinguishing media
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- **PAC-3:** Substance is not listed.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.

### 7 Handling and storage

- $\cdot$  Precautions for safe handling Thorough dedusting.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

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### 8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Personal protective equipment:

• General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### · Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

- Information on basic physical and chemical properties
- · General Information
- · Physical state
- · Color:
- · Odor:
- · Structural Formula
- · Molecular Weight
- · Storage Buffer
- · Odor threshold:

Solid Not determined. Characteristic C22H17D6N3O4 • HCI 435.9 g/mol

Not determined.

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· Formulation	
<ul> <li>Melting point/Melting range:</li> </ul>	Undetermined.
<ul> <li>Boiling point/Boiling range:</li> </ul>	Undetermined.
· Flammability:	Product is not flammable.
<ul> <li>Explosion limits:</li> </ul>	
· Lower:	Not determined.
· Upper:	Not determined.
<sup>·</sup> Flash point:	Not applicable.
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· pH-value:	Not applicable.
· Viscosity:	
· Kinematic:	Not applicable.
· SOLUBILITY	heated,DMSO: slightly; Methanol: slightly soluble
· Dynamic:	Not applicable.
<ul> <li>Solubility in / Miscibility with</li> </ul>	
· Water:	Not determined.
<ul> <li>Partition coefficient (n-octanol/water):</li> </ul>	Not determined.
· Vapor pressure:	Not applicable.
· Vapor pressure:	
· Density:	Not determined.
Relative density	Not determined.
· Vapor density	Not applicable.
<ul> <li>Particle characteristics</li> </ul>	Not determined.
· Other information	
· Appearance:	
· Form:	Solid
Important information on protection of health	
and environment, and on safety.	
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Change in condition	, ,
· Evaporation rate	Not applicable.
-	

## **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · **Incompatible materials:** strong oxidizing agents
- Hazardous decomposition products:
- carbon dioxide, carbon monoxide, hydrogen chloride, nitrogen oxides

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### **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

Oral TDLO 38.5 /mg/kg (human)

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- Alternative sources for toxicological information
- No non-standard sources for toxicological information where used.

### **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:
- Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

### **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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• Uncleaned packagings:
 • Recommendation: Disposal must be made according to official regulations.

UN proper shipping name DOT Toxic solids, organic, n.o.s. (Erlotinib-o (hydrochloride)) IMDG TOXIC SOLID, ORGANIC, N.O.S. (Erlotinib-o (hydrochloride))	UN-Number DOT, IMDG, IATA	UN2811
DOT       Toxic solids, organic, n.o.s. (Erlotinib-orghyperiodic))         IMDG       TOXIC SOLID, ORGANIC, N.O.S. (Erlotinib-orghyperiodic))         IATA       Toxic solid, organic, n.o.s. (Erlotinib-orghyperiodic))         IATA       Toxic solid, organic, n.o.s. (Erlotinib-orghyperiodic))         Transport hazard class(es)       DOT         Import       Import		
IMDG       (hydrochloride)) TOXIC SOLID), ORGANIC, N.O.S. (Erlotinib- (hydrochloride))         IATA       Toxic solid, organic, n.o.s. (Erlotinib- (hydrochloride))         Transport hazard class(es)       DOT         Impose       6.1 Toxic substances         Label       6.1         IMDG       Impose         Impose       Impose         Impose       Environmental hazards: Marine pollutant:         Environmental hazards: Marine pollutant:       Environmental hazardsus usbances, solid Symbol (fish and tree)		Toxic solids, organic, n.o.s. (Erlotinib-
IATA       (hydrochloride)) Toxic solid, organic, n.o.s. (Erlotinib-( (hydrochloride))         Transport hazard class(es)       DOT         Image: Class base of the second se	1420	(hydrochloride))
IATA       Toxic solid, organic, n.o.s. (Erlotinib-(hydrochloride)))         Transport hazard class(es)       DOT         Image: Class       6.1 Toxic substances         Label       6.1         IMDG       6.1         IMDG       6.1 Toxic substances         Class       6.1 Toxic substances         Label       6.1         IMDG       6.1 Toxic substances         Label       6.1         IATA       6.1 Toxic substances         Label       6.1         IATA       6.1 Toxic substances         Label       6.1         IATA       6.1         IATA       11         IATA       6.1         IATA       6.1         IATA       6.1         IATA       6.1         IATA       11         IATA       11         IATA       6.1         IATA       11         IATA       11 <td>IMDG</td> <td></td>	IMDG	
Transport hazard class(es)         DOT         Impose         Class       6.1 Toxic substances         Label       6.1         IMDG         IMDG         IMDG         Impose       6.1         Class       6.1 Toxic substances         Label       6.1         IATA       6.1         IATA       Class         Class       6.1 Toxic substances         Label       6.1         IATA       6.1         Packing group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Environmentally hazardous substance, solid         Marine pollutant:       Symbol (fish and tree)	ΙΑΤΑ	Toxic solid, organic, n.o.s. (Erlotinib-
DOT Class 6.1 Toxic substances 6.1 IMDG Class 6.1 Class 6.1		(hydrochloride))
Class       6.1 Toxic substances         Label       6.1         IMDG       6.1         IMDG       Impose         Impose       Impose         <	Transport hazard class(es)	
Class       6.1 Toxic substances         Label       6.1         IMDG       6.1         IMDG       6.1         IMDG       6.1         Image: Class       6.1 Toxic substances         Label       6.1         IATA       6.1         IATA       6.1         IATA       6.1         Class       6.1 Toxic substances         Label       6.1         IATA       6.1         Packing group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Environmentally hazardous substance, solid         Marine pollutant:       Symbol (fish and tree)         Transport in bulk according to Annex II of       III	DOT	
Class       6.1 Toxic substances         Label       6.1         IMDG       6.1         IMDG       6.1         IMDG       6.1         Image: Class       6.1 Toxic substances         Label       6.1         IATA       6.1         IATA       6.1         IATA       6.1         Class       6.1 Toxic substances         Label       6.1         IATA       6.1         Packing group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Environmentally hazardous substance, solid         Marine pollutant:       Symbol (fish and tree)         Transport in bulk according to Annex II of       III		
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IATA         IATA         Image: Class Label       6.1 Toxic substances         6.1       6.1         Packing group DOT, IMDG, IATA       III         Environmental hazards:       Environmentally hazardous substance, solid Symbol (fish and tree)         Transport in bulk according to Annex II of       Image: Class Substance	Class	6.1 Toxic substances
Class Label       6.1 Toxic substances 6.1         Packing group DOT, IMDG, IATA       III         Environmental hazards: Marine pollutant:       Environmentally hazardous substance, solid Symbol (fish and tree)         Transport in bulk according to Annex II of       III	Label	6.1
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Marine pollutant:     Symbol (fish and tree)       Transport in bulk according to Annex II of	DOT, IMDG, IATA	III
Transport in bulk according to Annex II of		
	•	Symbol (fish and tree)
		Not applicable.

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· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 100 kg
-	On cargo aircraft only: 200 kg
·IMDG	
<ul> <li>Limited quantities (LQ)</li> </ul>	5 kg
<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
·IATA	
· Remarks:	When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimi Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
· Special precautions for user	Warning: Toxic substances
· Hazard identification number (Kemler code):	•
· EMS Number:	F-A,S-A
· Stowage Category	A
· UN "Model Regulation":	UN 2811 TOXIC SOLID, ORGANIC, N.O.S (ERLOTINIB-D6 (HYDROCHLORIDE)), 6.1, II ENVIRONMENTALLY HAZARDOUS

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

- · Sara
- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of

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(Contd. from page 9) these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.	
<ul> <li>Department issuing SDS: Environment protection department.</li> <li>Contact: -</li> <li>Date of previous version 02/09/2022</li> <li>Date of preparation 06/02/2025</li> <li>Abbreviations and acronyms:         <ul> <li>IMOC: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transportation</li> <li>IATA: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transport Association</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>NFPA: National Fire Protection Association (USA)</li> <li>HMIS: Hazardous Materials Identification System (USA)</li> <li>LCS0: Lethal concentration, 50 percent</li> <li>DBS: Lethal dose, 50 percent</li> <li>DBS: Very Persistent, Bioaccumulative and Toxic</li> <li>vV-B: very Persistent and very Bioaccumulative</li> <li>NIOSH: National Institute for Occupational Safety</li> <li>OSHA: Occupational Safety &amp; Health</li> <li>TLV: Threshold Limit Value</li> <li>PEL: Permissible Exposure Limit</li> <li>Acute toxicity - Category 3</li> <li>Skin irritation 2: Skin corrosion/irritation - Category 2</li> <li>Eye irritation 2: Skin sensitisation - Category 1</li> <li>Carcinogenicity 2: Carcinogeneity - Category 1</li> <li>Carcinogenicity - Category 2</li> <li>Reproductive toxicity 1A: Reproductive toxicity - Category 1</li> <li>Specific target organ toxicity (single exposure) - Category 1</li> <li>Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2</li> <li>* Date compared to the previous version altered.</li> </ul> </li> </ul>	
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