

**Safety Data Sheet** 

acc. to OSHA HCS

Date of issue: 10/10/2024

Revision date 10/10/2024

Page 1/9

# **1** Identification · Product identifier · Trade name: Desethylene Ciprofloxacin (hydrochloride) · Synonym 7-[(2-aminoethyl)amino]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid, monohydrochloride · CAS Number: 528851-31-2 · Other means of identification · Article number: 22123 · EC number: 688-008-6 · 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. **GHS09** Environment Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. · Label elements · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2) US

Date of issue: 10/10/2024

Revision date 10/10/2024

# Trade name: Desethylene Ciprofloxacin (hydrochloride)

Hazard r	contd. from pag
$\bigcirc$	XX
GHS06	GHS09
	vord Danger
	statements
	xic if swallowed.
	ry toxic to aquatic life with long lasting effects.
	onary statements
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
	310 If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/internatio
	regulations.
	tion pertaining to particular dangers for man and environment: cation system:
	tings (scale 0 - 4)
	• • •
	Health = $2$
	Fire = 0
	Reactivity = 0
HMIS-rat	tings (scale 0 - 4)
HEALTH	2 Health = 2
FIRE	$\circ$ Fire = 0
REACTIVIT	
Other ha	
	of PBT and vPvB assessment
	t applicable.
	ot applicable.
	cation according to (d)(1)(ii) of § 1910.12000
The SDS	S issuer does not object to the classifications provided by importers or manufacturers
precurso	not otherwise classified
Hazards	e no adverse physical or health effects known that are not covered by the hazard classes of
Hazards There are	
Hazards There are	Communications Standard.
Hazards There are	

· Chemical characterization: Substances

• CAS No. Description 528851-31-2 Desethylene Ciprofloxacin (hydrochloride)

(Contd. on page 3)

US

Date of issue: 10/10/2024

Revision date 10/10/2024

#### Trade name: Desethylene Ciprofloxacin (hydrochloride)

(Contd. from page 2)

### Identification number(s)

· EC number: 688-008-6

### 4 First-aid measures

#### · Description of first aid measures

#### General information:

Immediately remove any clothing soiled by the product.

- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation: 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. Then 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.
- 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

· Precautions for safe handling Thorough dedusting.

· Information about protection against explosions and fires: No special measures required.

(Contd. on page 4)

US

Date of issue: 10/10/2024

Revision date 10/10/2024

#### Trade name: Desethylene Ciprofloxacin (hydrochloride)

(Contd. from page 3)

- · 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: None.
- Specific end use(s) No further relevant information available.

### 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.
- Breathing equipment: Not required.
- Protection of hands:

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: Not required.

Information on basic physical and ch	emical properties	
General Information		
Physical state	Solid	
Color:	Not determined.	
Odor:	Characteristic	
Structural Formula	C15H16FN3O3 • HCI	
Molecular Weight	341.8 g/mol	
Storage Buffer	5	
Odor threshold:	Not determined.	
Formulation		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flammability:	Product is not flammable.	

Date of issue: 10/10/2024

Revision date 10/10/2024

#### Trade name: Desethylene Ciprofloxacin (hydrochloride)

etermined. etermined. oplicable. etermined. oplicable.
etermined. oplicable. etermined. oplicable.
oplicable. etermined. oplicable.
etermined. oplicable.
oplicable.
policable.
oplicable.
oplicable.
etermined.
etermined.
oplicable.
etermined.
etermined.
oplicable.
etermined.
etermined.
ct does not present an explosion hazard.
e Fe

# **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 fluoride, nitrogen oxides, phosgene

# **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

(Contd. on page 6)

<sup>-</sup> US

Date of issue: 10/10/2024

Revision date 10/10/2024

(Contd. from page 5)

#### Trade name: Desethylene Ciprofloxacin (hydrochloride)

- · 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: Very 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.

Very toxic for aquatic organisms

# **13 Disposal considerations**

#### <sup>.</sup> Waste treatment methods

· Recommendation:

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

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

UN2811
0112011
Toxic solids, organic, n.o.s. (Desethylene Ciprofloxaci (hydrochloride))
TÓXIC SOLID, ORGANIC, N.O.S. (Desethylen Ciprofloxacin (hydrochloride))

Date of issue: 10/10/2024

Revision date 10/10/2024

# Trade name: Desethylene Ciprofloxacin (hydrochloride)

	(Contd. from page
	Toxic solid, organic, n.o.s. (Desethylene Ciprofloxaci (hydrochloride))
· Transport hazard class(es)	
DOT	
TOXIC	
Class	6.1 Toxic substances
Label	6.1
· IMDG	
Class	6.1 Toxic substances
· Label	6.1
· Class	6.1 Toxic substances
· Label	6.1
· Packing group · DOT, IMDG, IATA	111
· Environmental hazards: · Marine pollutant:	Environmentally hazardous substance, solid Symbol (fish and tree)
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg
·IMDG	
Limited quantities (LQ)	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	
	(Contd. on page

Date of issue: 10/10/2024

Revision date 10/10/2024

#### Trade name: Desethylene Ciprofloxacin (hydrochloride)

	(Contd. from page 7)
· 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 Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code)</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Toxic substances : 60 F-A,S-A A
· UN "Model Regulation":	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (DESETHYLENE CIPROFLOXACIN (HYDROCHLORIDE)), 6.1, III, 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 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.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of previous version 04/21/2022
- Date of preparation 10/10/2024
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 9)

US

Date of issue: 10/10/2024

Revision date 10/10/2024

# Trade name: Desethylene Ciprofloxacin (hydrochloride)

	(Contd. from page 8)
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Acute toxicity - oral 3: Acute toxicity – Category 3	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
* Data compared to the previous version altered.	
	US