Version number 3

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	inclusion of the substance/mixture and of th	e company/undertaking
· 1.1 Product ide	ntifier	CFD1/A
· Trade name: <u>C</u>	iprofloxacin Hydrochloride	serving scientists
No further relev	•: 47977 <b>entified uses of the substance or mixture and uses a</b> vant information available. <b>the substance / the mixture</b> Laboratory chemicals	lvised against
• 1.3 Details of th • Manufacturer/ SERVA Electro Carl-Benz-Str.	<b>he supplier of the safety data sheet</b> <b>Supplier:</b> phoresis GmbH 7	GUL
D-69115 Heide Tel.: +49 6221 FAX: +49 6221 msds.info@serv	13840-0 ! 13840-10	55
• <b>1.4 Emergency</b> Medical Emerg Poison Informa	partment: Product Safety department Tel.: +49 6221 telephone number: ency Information in case of poisoning: ation Center Mainz - Phone: +49 (0) 6131 19240 ce in German or English language)	13840-35
	101	
SECTION 2:	Hazards identification	
	on of the substance or mixture according to Regulation (EC) No 1272/2008	
	according to Regulation (EC) No 1272/2008	
Classification of GHSt GHSt Eye Irrit. 2	according to Regulation (EC) No 1272/2008	ffects.
Classification of Classification of GHSU Eye Irrit. 2 Aquatic Chroni 2.2 Label elema Labelling acco The substance i Hazard pictogr Signal word Wa Hazard statema H319 Causes se	According to Regulation (EC) No 1272/2008 07 H319 Causes serious eye irritation. C 3 H412 Harmful to aquatic life with long lasting ej ents rding to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regula ams GHS07 arning	
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· **vPvB**: vPvB - assessment not available.

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

· 3.1 Chemical characterisation: Substances

· CAS No. Description:

86393-32-0 Ciprofloxacin hydrochloride monohydrate

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

- · 4.1 Description of first aid measures
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist In case of complaints.

• After swallowing

Wash out mouth. Seek medical advice if discomfort occurs. Do not induce vomiting!

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

· Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be formed, but not limited to:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Hydrogen fluoride (HF)

Hydrogen chloride (HCl)

• 5.3 Advice for firefighters

• Protective equipment: Wear self-contained respiratory protective device.

## SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	
sure adequate ventilation	
oid formation of dust.	
oid contact with the eyes and skin.	
Environmental precautions:	
not allow to enter sewers/ surface or ground water.	
form respective authorities in case of seepage into water course or sewage system.	
Methods and material for containment and cleaning up:	
ck up mechanically.	
spose contaminated material as waste according to item 13.	
Reference to other sections	
e Section 7 for information on safe handling	
e Section 8 for information on personal protection equipment.	
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See Section 13 for disposal information.

# SECTION 7: Handling and storage

• 7.1 Precautions for safe handling No special precautions are necessary if used correctly. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.

- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage

 $\cdot$  Requirements to be met by storerooms and receptacles: Store at +2 to +8 °C

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep receptacle tightly sealed and store in dry conditions. Protect from exposure to the light.

• 7.3 Specific end use(s) No further relevant information available.

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

· Additional information about design of technical systems: No further data; see item 7.

- · 8.1 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.
- · 8.2 Exposure controls
- · Personal protective equipment
- General protective and hygienic measures Keep away from foodstuffs, beverages and feed.
  Store protective clothing separately.
  Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
  Avoid contact with the eyes and skin.
- **Breathing equipment:** Short term filter device: Filter P2.

• 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- $\cdot$  For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
- Nitrile rubber, NBR Natural rubber, NR
- Eye protection: Safety glasses

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• **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties					
• 9.1 Information on basic physical and c	hemical properties				
· General Information					
· Appearance:					
Form:	Crystalline powder				
Colour:	pale yellow				
· Odour:	Odourless				
· Odour threshold:	Not determined.				
· pH-value:	3.5-4.5				
· Change in condition					
Melting point/freezing point:	318-320 °C				
Initial boiling point and boiling range	: no information available				
· Flash point:	no information available				
· Flammability (solid, gaseous)	no information available				
· Ignition temperature:					
Decomposition temperature:	no information available				
· Self igniting:	Not determined.				
· Explosive properties:	Product does not present an explosion hazard.				
· Explosion limits:					
Lower:	no information available				
Upper:	no information available				
· Vapour pressure:	no information available				
· Density:	no information available				
· Relative density	no information available				
· Vapour density	no information available				
· Evaporation rate	no information available				
· Solubility in / Miscibility with					
Water:	Soluble				
· Partition coefficient: n-octanol/water:	no information available				
· Viscosity:					
dynamic:	no information available				
kinematic:	no information available				
· 9.2 Other information	No further relevant information available.				

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No further relevant informations available.
- · 10.4 Conditions to avoid high ttemperatures

• **10.5 Incompatible materials:** Avoid contact with: Strong acids alkalis

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• 10.6 Hazardous decomposition products: In case of fire: See Section 5

## **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms
- 12.5 Results of PBT and vPvB assessment
- **PBT:** PBT assessment not available.
- **vPvB**: vPvB assessment not available.
- · 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

- · Uncleaned packagings:
- · Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

## **SECTION 14: Transport information**

- · 14.1 UN-Number
- · ADR, IMDG, IATA

Void

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· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, IMDG, IATA		
· Class	Void	
· Label	-	
· 14.4 Packing group		
· ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Ann Marpol and the IBC Code		
marpoi ana ine IBC Code	Not applicable.	

## **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· National regulations

- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department

· Contact: +49 6221 13840-35

· Abbreviations and acronyms: PBT: persistent, bioaccumulative, toxic substance (REACH) vPvB: very persistent, very bioaccumulative substance (REACH) REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals CLP: Regulation on classification, labelling and packaging of substances and mixtures ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 • \* Data compared to the previous version altered.

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