



Material Safety Data Sheet

Section 1. Product Identification and Uses

Common/ Trade name	Ciprofloxacin Tablets, 250mg/500mg	Synonyms	Not available.
Chemical name	1-Cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-3-quinolinecarboxylic acid.	Chemical family	Not available.
Supplier	Yiling Pharmaceutical LTD. 36 Zhujiang Avenue, High-tech Zone, Shijiazhuang City, Hebei Province	Manufacturer	Yiling Pharmaceutical LTD. 36 Zhujiang Avenue, High-tech Zone, Shijiazhuang City, Hebei Province
Identified uses	Indicated for the treatment of infections caused by susceptible strains of microorganisms.	Emergency phone	FOR EMERGENCIE S INVOLVING DANGEROUS GOODS Call CANUTEC's Number 85311371 (8 AM-5 PM)

Section 2. Hazards Identification

1. OSHA/HCS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

2. Classification of the substance or mixture

CARCINOGENICITY - Category 2

AQUATIC HAZARD (LONG-TERM) - Category 3

3. GHS label elements Hazard pictograms



4. Signal word

Warning

5. Hazard statements

Suspected of causing cancer.

Harmful to aquatic life with long lasting effects.

**6. Precautionary statements Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.

7. Response

IF exposed or concerned: Get medical attention.

8.Storage

Store locked up.

9.Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

10. Hazards not otherwise classified

None known.

Section 3. Composition/information on ingredients**1. Substance/mixture**

Mixture

2. Chemical name

1-Cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-3-quinolinecarboxylic acid

3. Other means of identification

Not available.

4. CAS number

Not applicable.

5. Product code

Not available.

Ingredient name	%	CAS number
3-Quinolinecarboxylic acid, 1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-	60 - 100	85721-33-1
Cellulose	5 - 10	9004-34-6
Starch, carboxymethyl ether, sodium salt	1 - 5	9063-38-1
Silicon dioxide	0.1 - 1	7631-86-9
Starch	5 - 10	9005-25-8
Hydrogenated Vegetable Oil	0.1 - 1	150409-10-2
Magnesium distearate	1 - 5	557-04-0
Talc	1 - 5	14807-96-6
Titanium dioxide	0.1 - 1	13463-67-7
Ethanediol	0.1 - 1	107-21-1
Cellulose, 2-hydroxypropyl methyl ether	0.1 - 1	9004-65-3
Simethicone	0.1 - 1	8050-81-5
Polyacrylate Dispersion (Eudragit NE 30D)	0.1 - 1	1439374-06-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures**Description of necessary first aid measures**

**1. Eye contact**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

2. Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

3. Skin contact

Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

4. Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed**Potential acute health effects****1. Eye contact**

No known significant effects or critical hazards.

2. Inhalation

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

3. Skin contact :

No known significant effects or critical hazards.

4. Ingestion

No known significant effects or critical hazards.

Over-exposure signs/symptoms**1. Eye contact**

No known significant effects or critical hazards.

2. Inhalation

No known significant effects or critical hazards.

3. Skin contact

No known significant effects or critical hazards.

4. Ingestion

No known significant effects or critical hazards.



Indication of immediate medical attention and special treatment needed, if necessary

1. Notes to physician

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

2. Specific treatments

No specific treatment.

3. Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire Fighting Measures

Extinguishing media

1. Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

2. Unsuitable extinguishing media

None known.

3. Specific hazards arising from the chemical

This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

4. Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

nitrogen oxides

halogenated compounds

metal oxide/oxides

5. Special protective actions for fire-fighters

No special measures are required.

6. Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

1. For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

2. For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

3. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,



waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up**1. Spill**

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage**Precautions for safe handling****1. Protective measures**

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

2. Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

3. Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls/Personal Protection**Control parameters****1. Occupational exposure limits**

Ingredient name	Exposure limits
Titanium dioxide	OSHA PEL (United States, 6/2010). TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2012). TWA: 10 mg/m ³ 8 hours.

2. Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

3. Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply



with the requirements of environmental protection legislation.

Individual protection measures**1. Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

2. Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection**1. Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

2. Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

3. Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

4. Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and Chemical Properties

1. Physical state: Solid.
2. Color: Not available.
3. Odor: Not available.
4. Odor threshold: Not available.
5. pH: Not available.
6. Melting point: Not available.
7. Boiling point: Not available.
8. Flash point: Not applicable.
9. Evaporation rate: Not available.
10. Flammability (solid, gas) : Not available.
11. Lower and upper explosive (flammable) limits: Not available.
12. Vapor pressure: Not available.



- 13.Vapor density: Not available.
14.Relative density: Not available.
15.Solubility: Not available.
16.Partition coefficient: octanol/water: Not available.
17.Auto-ignition temperature: Not available.
18.Decomposition temperatureViscosity: Not available.

Section 10. Stability and Reactivity**1. Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

2. Chemical stability

The product is stable.

3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

4. Conditions to avoid

No specific data.

5. Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials and acids. Non-reactive or compatible with the following materials: reducing materials, combustible materials, organic materials, metals, alkalis and moisture.

6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information**Potential chronic health effects****1. General**

No known significant effects or critical hazards.

2. Carcinogenicity

Suspected of causing cancer. Risk of cancer depends on duration and level of Exposure.

3. Mutagenicity

No known significant effects or critical hazards..

4. Teratogenicity.

No known significant effects or critical hazards.

5. Developmental effects

No known significant effects or critical hazards.

6. Fertility effects

No known significant effects or critical hazards.

Numerical measures of toxicity**1. Acute toxicity estimates**

Route	ATE value
Oral	50000 mg/kg

Section 12. Ecological Information**1. Toxicity**

Product/ingredient name	Result	Species	Exposure
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**Material Safety Data Sheet-- Ciprofloxacin Tablets****Yiling Pharmaceuticals Ltd**

3-Quinolincarboxylic acid, 1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)- Titanium dioxide	Acute EC50 1 mg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute IC50 6700 µg/l Fresh water	Algae- Pseudokirchneriella subcapitata -Exponential growth phase	72 hours
	Chronic NOEC 5000 µg/l Fresh water	Algae- Pseudokirchneriella subcapitata -Exponential growth phase	72 hours
	Acute EC50 5.83 mg/L Fresh water	Algae- Pseudokirchneriella subcapitata -Exponential growth phase	72 hours
	Acute LC50 3 mg/L Fresh water	Algae- Pseudokirchneriella subcapitata Exponential growth phase	72 hours
	Acute LC50 5.5 ppm Fresh water	Crustaceans-Ceriodaphnia dubia-Neonate	48 hours
	Acute LC50 1000 mg/L Fresh water	Daphnia-Daphnia magna- Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Chronic NOEC 0.984 mg/L Fresh water	Fish - Pimephales promelas	96 hours
		Algae - Pseudokirchneriella subcapitata	72 hours
		Exponential growth phase	

2. Persistence and degradability

There is no data available.

3. Bioaccumulative potential

Product/ingredient name	LogP ow	BCF	Potential
3-Quinolincarboxylic acid,1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-	0.28	-	Low
Titanium dioxide	-	352	low

Mobility in soil**1. Soil/water partition coefficient (K OC)**

Not available.

2. Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal Considerations**1. Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport Information

**Material Safety Data Sheet-- Ciprofloxacin Tablets****Yiling Pharmaceuticals Ltd**

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No	No	No
Additional information	-	-	-

1.AERG : Not applicable.**2.Special precautions for user**

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

3.Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

Section 15. Regulatory information**1. U.S. Federal regulations**

TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): Not determined.

2. Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)

Listed

3. Clean Air Act Section 602 Class I Substances

Not listed

4.Clean Air Act Section 602Class II Substances

Not listed

5.DEA ListI Chemicals(Precursor Chemicals)

Not listed

6.DEA List II Chemicals(Essential Chemicals)

Not listed

7. SARA 302/304 Composition/information on ingredients

No products were found.

8. SARA 304 RQ :

Not applicable.

9. SARA 311/312 Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Titanium dioxide	0.1 - 1	No.	No.	No.	No.	Yes.

10. SARA 313

	Product name	CAS number	%
FormR - Reporting requirements	Ethanol	107-21-1	0.1 - 1
Supplier notification	Ethanol	107-21-1	0.1 - 1



SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations**1. Massachusetts**

The following components are listed: Cellulose; Starch; Talc; Silicon dioxide; Titanium dioxide; Ethanediol

2. New York

The following components are listed: Ethanediol³.

3. New Jersey

The following components are listed: Cellulose; Talc; Titanium dioxide; Ethanediol

4. Pennsylvania

The following components are listed: Cellulose; Starch; Talc; Silicon dioxide; Titanium dioxide; Ethanediol

5. California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer level	Reproductive	No significant risk	Maximum acceptable dosage level
Titanium dioxide	Yes	No	No	No

International regulations**1. International regulations**

Australia inventory (AICS): Not determined

China inventory (IECSC): Not determined.

Japan inventory: Not determined.

Korea inventory: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan inventory (CSNN): Not determined.

2. Chemical Weapons Convention List Schedule I Chemicals

Not listed

3. Chemical Weapons Convention List Schedule II Chemicals

Not listed

4. Chemical Weapons Convention List Schedule III Chemicals

Not listed

Section 16. Other Information**History****1. Date of issue mm/dd/yyyy**

10/20/2023

2. Version

1

3. Revised Section(s)

Not applicable.



4.Prepared by

KMK Regulatory Services Inc.

5.Key to abbreviations

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.