

**CHROMO LABORATORIES INDIA PVT. LTD
HYDERABAD**

MATERIAL SAFETY DATA SHEET

Section -1 - Product and Company Information

Product Name : **Moxifloxacin Hydrochloride**
Company Address : Chromo Laboratories India Pvt. ltd
Plot No. 43 & 44, IDA, Phase-II, Pashamylaram,
Patancheru mandal, Medak district - 502307,
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Section -2 Composition /Information on Ingredient

CAS No : 186826-86-8
Formula : $C_{21}H_{25}FN_3O_4 \cdot HCl$
Synonyms : -

Section -3 Hazards Identification

LABER PRECAUTIONARY STATEMENTS

Irritant : Irritating to eyes, Respiratory system, and skin.
Target organs : Blood, CNS.

Incase of contact with eyes, rinse immediately with plenty of water and seek medical advice.

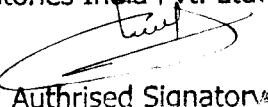
Wear suitable protective clothing.

Section -4 First Aid Measures

ORAL EXPOSURE

If Swallowed, Wash out mouth with water provided person is conscious. Call a Physician Immediately.

For Chromo Laboratories India Pvt. Ltd.


Authorised Signatory

INHALATION EXPOSURE

If Inhaled, Remove to Fresh air. If not breathing give artificial Respiration. If breathing is Difficult, give Oxygen

DERMAL EXPOSURE

In case of Skin Contact, Flush with copious amount of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with finger. Call a Physician.

Section -5

Fire Fighting Measures

FLASH POINT : N/A

AUTOIGNITION TEMP : N/A

FLAMMABILITY : N/A

EXTINGUISHING MEDIA

Suitable : Water spray, Carbon Dioxide, Dry chemical Powder or Appropriate form.

FIREFIGHTING

Protective Equipment : Wear self-contained breathing apparatus and Protective Clothing to prevent contact with skin and eyes.

Specific Hazard(s) : Emits toxic fumes under fire conditions.

Section -6

Accidental release measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate Area.

PROCEDURE (S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, Place in a labeled bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section -7

Handling and Storage

HANDLING

User Exposure : Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable : Keep tightly closed.

Section -8

Exposure Controls / PPE

ENGINEERING CONTROLS

Use only in a chemical fume hood. Safety shower and eye bath.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory :Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU) .Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand : Compatible chemical-resistant gloves.

Eye : Chemical Safety Goggles.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash thoroughly after handling.

Section -9

Physical / Chemical Properties

Appearance	: Off white to yellow powder
Property	: Value, at temperature or pressure
Molecular weight	: 437.9 AMU
pH	: N/A
BP/BP Range	: N/A
MP/MP Range	: 324-325°C
Freezing Point	: N/A
Vapor pressure	: N/A
Vapor Density	: N/A
Saturated Vapor Conc	: N/A

SG/Density	: N/A
Bulk Density	: N/A
Odor Threshold	: N/A
Volatile %	: N/A
VOC Content	: N/A
Water Content	: N/A
Solvent Content	: N/A
Evaporation Rate	: N/A
Viscosity	: N/A
Surface Tension	: N/A
Partition Coefficient	: N/A
Decomposition Temp	: N/A
Flash Point	: N/A
Explosion Limits	: N/A
Flammability	: N/A
Auto ignition Temp	: N/A
Refractive Index	: N/A
Optical Rotation	: N/A
Miscellaneous Data	: N/A
Solubility	soluble in 0.1 mol/L NaOH; sparingly soluble in water and methanol, and slightly soluble in 0.1 mol/L HCl, N, N-dimethylformamide

N/A = Not available

Section -10

Stability and Reactivity

STABILITY

Stability : Stable
Materials to avoid : Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization : Will not occur.

Section -11

Toxicological Information

ROUTE OF EXPOSURE

Skin Contact	: May cause skin irritation.
Skin Absorption	: May be harmful if absorbed through the skin.
Eye Contact	: May cause eye irritation.
Inhalation	: Material may be irritating to mucous membranes and Upper respiratory track .May be harmful if inhaled.
Ingestion	: Harmful if Swallowed

TARGET ORGAN(S) OR SYSTEM(S)

Central nervous system, Blood.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, Physical, and toxicological properties have not been thoroughly investigated.

TOXICITY DATA

LD50 oral rat : 1320 mg/Kg
ATE [Oral] : 500,000 Mg/Kg

TARGET ORGAN DATA

Behavioral (Somnolence)
Behavioral (Hallucinations, Distored perceptions)
Behavioral (Ataxia)
Cardiac (pulse rate increased without fall in BP)
Vascular (BP Lowering not characterized in autonomic section)
Lungs, Thorax or Respiration(Bronchiolar constriction, Including asthma)
Lungs, Thorax or Respiration(Dyspnae)
Gastrointestinal(Changes in structure or function of exocrine pancreas)
Kidney, Ureter, Bladder(Changes in Tubules)
Skin and appendages (Hair)
Immunological including allergic (Anaphylaxis)
Nutritional and gross metabolic (Changes in: K)
Nutritional and Gross metabolic (Body temperature increase)
Only selected registry of toxic effects of chemical substances (RTECS) data is presented here .See actual entry in RTECS for complete Information.

Section -12

Ecological Information

N/A

Section -13

Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or Mix the material with a combustible solvent and drum in a chemical incinerator equipped with an afterburner and scrubber .Observe all federal, state and local environmental regulations.

Section -14**Transport Information**

LAND TRANSPORT (US DOT)

Proper shipping Name: N/A

Additional Transport Information: Transport in accordance with local, state, and federal regulations. Safe for Air Transport

Section -15**Regulatory Information**

EUROPEAN INFORMATION

Caution : Substance not yet fully tested

Irritant

R 36/37/38

Irritating to eyes, Respiratory system and Skin

S 26

Incase of contact with eyes, Rinse immediately with plenty of water and seek medical advice.

S 36

Wear suitable Protective clothing.

Section -16**Other Information**

DISCLAIMER

For R&D/Industrial use only. Not for Drug, Household or Other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chromo Laboratories India Pvt. Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.
