



4-Chloropyridine Hydrochloride

Safety Data Sheet

According to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of Compilation : April 3, 2024
Date of Revision : April 03, 2024
Due Date of Revision : May, 2027
File Name : 0813Gj Ghs00 Div.3 sds 4-Chloropyridine Hydrochloride
Version Number : 00
Supersedes date : Not applicable
Supersedes version : Not applicable

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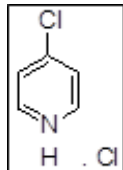
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1. Product identifier

PRODUCT NAME	: 4-Chloropyridine Hydrochloride
CAS RN	: 7379-35-3
EC#	: 230-946-1
SYNONYMS	: 4-chloropyridine, chloride; 4-Chloropyridine, HCl; Pyridine, 4-chloro-, hydrochloride (1:1).
TECHNICAL NAME	: 4-Chloropyridine hydrochloride (1:1)
MOLECULAR FORMULA	: C ₅ H ₄ ClN.H Cl
STRUCTURAL FORMULA	



1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

4-Chloropyridine Hydrochloride is used in pharmaceutical industry.

Uses advised against: None

1.3. Details of the supplier of the safety data sheet

Jubilant Ingrevia Limited

FACTORY & REGISTERED OFFICE: Jubilant Ingrevia Limited., Bhartiagram, Gajraula, District: Amroha, Uttar Pradesh-244223, India.
T +91-5924-267437 & +91-5924-267438

HEAD OFFICE: Jubilant Ingrevia Limited., Plot 1-A, Sector 16-A, Institutional Area, Noida, Uttar Pradesh, 201301 - India
T +91-120-4361000 - F +91-120-4234881 / 84 / 85 / 87 / 95 / 96 support@jubl.com - www.jubilantingrevia.com

1.4. Emergency telephone number

For Chemical Emergency ONLY (in the case of fire, leak, spill, exposure or accident) Call

Chemtrec: 1-800-424-9300 (US), 1-703-527-3887 (Outside U.S.)

Chemtrec (India): 000-800-100-7141

For ALL other emergencies call Emergency Control Room Gajraula at 99970 22412

SECTION 2: HAZARD(S) IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity Oral: Category 4	H302	Harmful if swallowed.
Eye damage/irritation: Category 2	H319	Causes serious eye irritation.

2.2. Label Elements

According to regulation (EC) 1272/2008

Hazard Pictogram: GHS 07.



Signal Word: Warning!

GHS 07: Exclamation Mark

HAZARD AND PRECAUTIONARY STATEMENTS:

HAZARD STATEMENTS

- H302: Harmful if swallowed.
- H319: Causes serious eye irritation.

PRECAUTIONARY STATEMENTS

- P264: Wash skin thoroughly after handling.



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- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P330: Rinse mouth.
- P337 + P313: If eye irritation persists: Get medical advice/attention.
- P501: Dispose of contents/container to local/regional/national/international regulations.

2.3 Other Hazards

- Substance is not classified as PBT nor as vPvB. For further details see section 12.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	CAS #	EC#	Purity	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4-Chloropyridine Hydrochloride	7379-35-3	230-946-1	98% Min.	Acute toxicity Oral: Category 4 Eye damage/irritation: Category 2

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

- Consult a physician. Show this safety data sheet to the doctor in attendance.
- **Eyes:** If in eyes rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do so. Continue rinsing. Seek medical attention.
- **Skin:** Immediately take off all contaminated clothing. Wash thoroughly with water for at least 15 minutes. Wash contaminated clothes before reuse. Seek immediate medical attention.
- **Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if you feel unwell. Monitor for respiratory distress. Apply artificial respiration if not breathing. Do not use mouth-to-mouth methods if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- **Ingestion:** If swallowed call a poison center if you feel unwell. Rinse mouth. Do NOT induce vomiting by use of emetics. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed.

Acute effects:

- 4-Chloropyridine Hydrochloride is irritating to eyes. It is harmful if swallowed.

Chronic effects:

- To the best of our knowledge, the chronic health effects of this product have not been fully investigated.

4.3. Indication of any immediate medical attention and special treatment needed.

- No further information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

- *Appropriate extinguishing media:* Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

- If this product is involved in fire, it may release Carbon dioxide, Carbon monoxide, Nitrogen oxides(NO_x), Hydrogen chloride gas.
- High vapor concentration may result in an explosion hazard.

5.2. Special Protective Equipment and Precautions for Fire Fighter

- Evacuate the area and fight fires from a safe distance.
- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions or as per locally valid procedures.
- Fire fighters must wear Self Contained Breathing Apparatus (SCBA) and full protective clothing. The chemical is harmful in contact with eyes.
- Report any run-off of fire waters contaminated with this chemical as per local and federal procedures applicable.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Wear protective clothing, full boots, impervious gloves, safety glasses and Self Contained Breathing Apparatus (SCBA), as may be deemed appropriate.
- Avoid breathing vapors and contact with skin and eyes.
- Shut off leak source if possible.
- Wipe up.
- Decontaminate all equipment.
- Alert Emergency Responders and tell them location and nature of hazard.
- Clean up all spills immediately following relevant Standard Operating Procedures.

6.2. Environmental precautions

- Clean up all spills immediately following relevant Standard Operating Procedures.
- Inform authorities in event of contamination of any public sewers, drains or water bodies.
- Prevent, by any means available, spillage from entering drains or water and watercourses.
- Collect recoverable product into labeled containers for recycling, recovery or disposal.

6.3. Methods and material for containment and cleaning up

- Clean up all spills immediately following relevant Standard Operating Procedures.
- Collect recoverable product into labeled containers for recycling, recovery or disposal.
- Contain spill with sand, earth or vermiculite.
- Clean up all tools and equipment.
- Shut off leak source if possible.
- Decontaminate all equipment.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Prevent entry into waterways, sewers, basements or confined areas.
- Use clean tools to collect material and place it into loosely covered plastic containers for later disposal.

6.4. Reference to other sections

- For more information please refer to section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

- Keep container tightly sealed.
- Provide appropriate exhaust ventilation at places where dust is formed.
- Do not eat, drink or smoke while handling the product.
- Wear protective gloves/clothing and eye/face protection.
- Wash thoroughly after handling.
- Launder contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

- Store at ambient temperature.
- Keep container tightly closed in a dry and well-ventilated place.
- Store in original container.
- Keep securely closed when not in use.

7.3. Specific end use(s)

- 4-Chloropyridine Hydrochloride is used in pharmaceutical industry.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits Values

- This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2. Exposure controls

Appropriate Engineering Controls:



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- Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3. Personal Protection

- **Eye/face protection:** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- **Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- **Body Protection:** Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- **Respiratory protection:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

General Hygiene and general comments:

- Wash hands and face after working with the substance.
- Under no circumstances eat or drink at the workplace.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties.

Sr.No.	Parameter	Typical value
1.	Appearance	Off-white Solid
2.	Molecular weight	150.01 g/mol
3.	Odor	Odorless
4.	Odor Threshold	Not Applicable
5.	pH	2 (100 g/L aq.sol)
6.	Melting point/Freezing point	210 °C
7.	Boiling Point	Not Available
8.	Flash point	198 °C
9.	Evaporation rate (n-BuAc=1)	Not applicable
10.	Flammability	Non- flammable
11.	Upper/lower flammability or Explosive limits	Not Available
12.	Vapor pressure	766.6 Pa at 25 °C
13.	Vapor density (air=1)	Not applicable
14.	Relative density	550 kg/m ³ at 20 °C (Bulk density)
15.	Solubility	Soluble in water, Insoluble in acetone and ethanol
16.	Partition coefficient : n-(Octanol / water)	Not available
17.	Auto-ignition temperature	525 °C
18.	Decomposition temperature	> 213°C
19.	Viscosity	Not Applicable
20.	Explosive property	Not available

9.2. Other information.

- No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

- No information available.



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10.2. Chemical stability

- Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

- No dangerous reaction known.

10.4. Conditions to avoid

- Keep away from moisture, Incompatible products.

10.5. Incompatible materials

- Oxidizing agents, Metals

10.6. Hazardous decomposition products

- Thermal decomposition may produce carbon monoxide and oxides of nitrogen, carbon dioxide and Hydrogen chloride gas.

10.7. Hazardous Polymerization

- Not reported.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

- 4-Chloropyridine Hydrochloride is irritating to eyes. It is harmful if swallowed.

LD50 (Oral) Rat: 566 mg/kg

Skin corrosion/irritation	:	No data available.
Eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitization	:	No data available
Germ cell Mutagenicity	:	No data available
Carcinogenicity	:	Not listed by IARC and OSHA. IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
Reproductive toxicity	:	No data available.
STOT-single exposure	:	No data available.
STOT- repeated exposure	:	No data available.
Aspiration Hazards	:	No data available.

RTECS: Not available

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

- LC50 (Fathead minnow)= >100 mg/l
- 4-Chloropyridine Hydrochloride can be chronically toxic to fish..

12.2. Persistence and degradability

- Soluble in water, Persistence is unlikely based on information available.

12.3. Bio accumulative potential

4-Chloropyridine Hydrochloride (7379-35-3)	
Log Kow	1.22 (Experimental at 25 degrees). Low potential to bio accumulate.
BCF	11.6



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4-Chloropyridine Hydrochloride is not expected to bio accumulate in the food chain.

12.4. Mobility in soil

- No data available.

12.5. Results of PBT and vPvB assessment

- The substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Burn in a chemical incinerator equipped with an afterburner and scrubber.
- Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws. Note that disposal regulations may also apply to empty containers and equipment reinstates.

Contaminated packaging

- Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

- This substance is not considered to be Hazardous for transport by Air/Rail/Road and Sea and thus not regulated by IATA/ICAO/ARD/RID/IMO/IMDG.

ADR/RID	IMDG	IATA
14.1. UN number		
None	None	None
14.2. UN proper shipping name		
None	None	None
14.3. Transport hazard class(es)		
Not dangerous	Not dangerous	Not dangerous
14.4. Packing group		
None	None	None
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

- Not applicable.

SECTION 15: REGULATORY INFORMATION

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

European Union Information

- Substance is not on the REACH Candidate List.
- Substance is not on the REACH Annex XIV List (requiring Authorization for use).
- The conditions of restriction to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed:** Substance is not listed.

Classification as per GHS HazCom 2012:

- Hazards Class and Category:** Acute oral Cat 4, Eye irrit.cat.2A.
- Hazard Statements:** H302; H319.

Chemical Inventory Lists:	Status
TSCA:	Listed



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EC/ List No.	230-946-1
Canada(DSL/NDSL):	Listed (NDSL)
Korea:	Not listed
Australia:	Not listed
Taiwan	Listed (TCSI)
New Zealand	Listed (NZIoC)
Philippines	Listed (PICCS)
China: IECSC	Listed

US information

- **TSCA**
CAS# 7379-35-3 is listed on the Toxic Substances Control Act Inventory (TSCA) inventory.
- **Clean Air Act:**
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
- **CANADA-DSL/NDSL**
The substance is listed in NDSL.
- **California Prop 65**
California No Significant Risk Level: This product is not listed.

15.2. Chemical safety assessment

- Chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

a) Compilation information of safety data sheet

Date of compilation : April 4, 2017
Chemical : 4-Chloropyridine Hydrochloride
CAS # : 7379-35-3
File Name : 0813Gj Ghs00 Div.3 sds 4-Chloropyridine Hydrochloride
Revision Number : 00
Date of Issue of SDS : April 03, 2024
Revision Due Date : March, 2027
Supersedes date : Not applicable
Supersedes version : Not applicable

b) A key or legend to aberrations and acronyms used in the safety data sheet

- PBT = Persistent Bio accumulative and Toxic.
- vPvB = Very Persistent and Very Bio accumulative.
- SCBA = Self Contained Breathing Apparatus.
- NIOSH REL = National Institute for Occupational Safety and Health Recommended Exposure Limit.
- OSHA PEL = Occupational Safety and Health Administration Permissible Exposure Limit.
- OELTWA = Occupational Exposure Limit Time Weighted Averages.
- RTECS = Registry of Toxic Effects of Chemical Substances.
- NTP = National Toxicology Program.
- IARC = International Agency for Research on Cancer.
- EPA = Environmental Protection Agency.
- TSCA = Toxic Substances Control Act.
- SARA = Superfund Amendments and Reauthorization Act.
- WHIMS = Workplace Hazardous Materials Information System.
- DSL/NDSL = Domestic/Non-Domestic Substances List.
- BCF = Bio Concentration Factor.
- TLV = Threshold Limit Value.
- ACGIH = American Conference of Governmental Industrial Hygienists.



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- REACH = Registration, Evaluation .Authorization and Restriction of Chemicals.
- CLP = Classification, Labeling and Packaging.
- LD / LC = Lethal Doses / Lethal Concentration.
- GHS = Globally Harmonized System.
- ADR = Accord European relative au transport international de marchandises.
- IMDG-Code = International Maritime Code for Dangerous Goods.
- EmS = Emergency measures on Sea.
- ICAO = International Civil Aviation Organization.
- IATA/DGR= International Air Transport Association/Dangerous Goods Regulation.

c) Key Literature reference and sources for data

Biographical reference and data sources

- Globally Harmonized System of Classification and Labelling of Chemicals.
- CLP REG (regulation) (EC) no. 1272/2008, last modification by regulation (EC) no. 790/2009
- REG (EC) no. 1907/2006, last modification by REG (EC) Nr. 830/2015.

d) List of hazard statements

Hazards Statements	
	<ul style="list-style-type: none">• H302: Harmful if swallowed.• H319: Causes serious eye irritation.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

(End of Safety Data Sheet)