

# SAFETY DATA SHEET

Version: v1

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : 2-Chloropyridine  
Product Number : C104870  
Brand : aladdin  
CAS-No. : 109-09-1

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

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 2), H330

Acute toxicity, Dermal (Category 2), H310

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Specific target organ toxicity - repeated exposure (Category 2), H373

Short-term (acute) aquatic hazard (Category 1), H400

Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 GHS Label elements, including precautionary statements

|                                   |                                                                                                                                  |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Pictogram</b>                  |                                                |
| <b>Signal word</b>                | Danger                                                                                                                           |
| <b>Hazard statement(s)</b>        |                                                                                                                                  |
| H301                              | Toxic if swallowed                                                                                                               |
| H302                              | Harmful if swallowed                                                                                                             |
| H310                              | Fatal in contact with skin                                                                                                       |
| H315                              | Causes skin irritation                                                                                                           |
| H318                              | Causes serious eye damage                                                                                                        |
| H319                              | Causes serious eye irritation                                                                                                    |
| H330                              | Fatal if inhaled                                                                                                                 |
| H331                              | Toxic if inhaled                                                                                                                 |
| H335                              | May cause respiratory irritation                                                                                                 |
| H373                              | Causes damage to organs through prolonged or repeated exposure                                                                   |
| H400                              | Very toxic to aquatic life                                                                                                       |
| H410                              | Very toxic to aquatic life with long lasting effects                                                                             |
| <b>Precautionary statement(s)</b> |                                                                                                                                  |
| P260                              | Do not breathe dust/fume/gas/mist/vapors/spray.                                                                                  |
| P261                              | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                                 |
| P262                              | Do not get in eyes, on skin, or on clothing.                                                                                     |
| P264                              | Wash hands [and ...] thoroughly after handling.                                                                                  |
| P270                              | Do not eat, drink or smoke when using this product.                                                                              |
| P271                              | Use only outdoors or in a well-ventilated area.                                                                                  |
| P273                              | Avoid release to the environment.                                                                                                |
| P280                              | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P284                              | [In case of inadequate ventilation] Wear respiratory protection.                                                                 |
| P320                              | Specific treatment is urgent (see ... on this label).                                                                            |
| P321                              | Specific treatment (see ... on this label).                                                                                      |
| P330                              | Rinse mouth.                                                                                                                     |
| P391                              | Collect spillage.                                                                                                                |
| P302+P352                         | IF ON SKIN: wash with plenty of water.                                                                                           |
| P304+P340                         | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305+P351+P338                    | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P361+P364                         | Take off immediately all contaminated clothing and wash it before reuse.                                                         |
| P362+P364                         | Take off contaminated clothing and wash it before reuse.                                                                         |

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|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P405           | Store locked up.                                                                                                                 |
| P403+P233      | Store in a well-ventilated place. Keep container tightly closed.                                                                 |
| P501           | Dispose of contents/container to an approved waste disposal plant.                                                               |
| P264+P265      | Wash hands [and ...] thoroughly after handling. Do not touch eyes.                                                               |
| P301+P316      | IF SWALLOWED: Get emergency medical help immediately.                                                                            |
| P301+P317      | IF SWALLOWED: Get medical help.                                                                                                  |
| P305+P354+P338 | IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P317           | Get emergency medical help.                                                                                                      |
| P337+P317      | If eye irritation persists: Get medical help.                                                                                    |
| P332+P317      | If skin irritation occurs: Get medical help.                                                                                     |
| P316           | Get emergency medical help immediately.                                                                                          |
| P319           | Get medical help if you feel unwell.                                                                                             |

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                                                 |
|------------------|-----------------------------------------------------------------|
| Synonyms         | : 2-chloro-Pyridine; $\alpha$ -chloropyridine; o-chloropyridine |
| Formula          | : C <sub>5</sub> H <sub>4</sub> CIN                             |
| Molecular weight | : 113.54                                                        |
| CAS No.          | : 109-09-1                                                      |
| EC-NO.           | : 203-646-3                                                     |

| Component        | Classification                                                                                                                                                                                    | Concentration |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 2-Chloropyridine | Acute Tox. 4; Acute Tox. 2; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H302, H330, H310, H315, H318, H335, H373, H400, H410 M-Factor - Aquatic Acute: 1 | ≥98%          |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media**

no data available

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

Use water spray to cool unopened containers.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

##### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). 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. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

##### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                                                 |                                                                           |
|-------------------------------------------------|---------------------------------------------------------------------------|
| a) Appearance                                   | form: liquid color: Colorless to light yellow                             |
| b) Odour                                        | no data available                                                         |
| c) Odour Threshold                              | no data available                                                         |
| d) pH                                           | no data available                                                         |
| e) Melting point/freezing point                 | -46°C                                                                     |
| f) Initial boiling point and boiling range      | 170°C                                                                     |
| g) Flash point                                  | 65°C                                                                      |
| h) Evaporation rate                             | no data available                                                         |
| i) Flammability (solid, gas)                    | no data available                                                         |
| j) Upper/lower flammability or explosive limits | no data available                                                         |
| k) Vapour pressure                              | no data available                                                         |
| l) Vapour density                               | no data available                                                         |
| m) Relative density                             | 1.21-1.213                                                                |
| n) Water solubility<br>water (27g / L)          | Soluble in aromatic hydrocarbons and halogenated hydrocarbons. Soluble in |
| o) Partition coefficient: n-octanol/water       | no data available                                                         |
| p) Auto-ignition temperature                    | no data available                                                         |
| q) Decomposition temperature                    | no data available                                                         |
| r) Viscosity                                    | no data available                                                         |
| s) Explosive properties N                       | no data available                                                         |
| t) Oxidizing properties N                       | no data available                                                         |

**9.2 Other safety information**

no data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

no data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

no data available

## 10.4 Conditions to avoid

Heat, flames and sparks.

## 10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Peroxides

## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas Other decomposition products - No data available In the event of fire: see section 5

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Acute toxicity

LD50 Oral - Rat - 342 mg/kg (OECD Test Guideline 401) LD50 Dermal - Rabbit - < 200 mg/kg (OECD Test Guideline 402) LD50 Intraperitoneal - Rabbit - 48 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Antipsychotic. Liver:Fatty liver degeneration. LD50 Intraperitoneal - Mouse - 130 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Antipsychotic. Liver:Fatty liver degeneration.

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

Eyes - Rabbit Result: Risk of serious damage to eyes. (OECD Test Guideline 405)

### Respiratory or skin sensitisation

no data available

### Germ cell mutagenicity

Result: Positive results were obtained in some in vitro tests. OECD Test Guideline 474 Mouse Result: In vivo tests did not show any chromosomal changes.

### Carcinogenicity

no data available

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure. - Liver, Kidney

### Aspiration hazard

no data available

### Additional Information

RTECS: Not available Inhalation of high concentrations may cause:, Local irritation, Nausea, Vomiting, Prolonged or repeated exposure may cause:, Weakness, Fatigue, Central nervous system depression, Dizziness, Headache, Kidney injury may occur., Liver injury may occur.

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## SECTION 12: Ecological information

### 12.1 Toxicity

The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

### 12.2 Persistence and degradability

Biodegradability Result: - According to the results of tests of biodegradability this product is not readily biodegradable. (OECD Test Guideline 301C)

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

## SECTION 13:

### 13.1 Disposal considerations

#### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

#### DOT (US)

UN number: 2822

Packing group: II

Class: 6.1

Proper shipping name: 2-

Reportable Quantity(RQ): no data  
available

Poison Inhalation Hazard: no data  
available

CHLOROPYRIDINE

Environmental Hazards: no

#### IMDG

UN number: 2822

Packing group: II

EMS-No: no data available

Proper shipping name: 2-CHLOROPYRIDINE

#### IATA

UN number: 2822

Packing group: II

Class: 6.1

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Proper shipping name: 2-CHLOROPYRIDINE

### SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### SECTION 16: Other information

|                  |                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Prepared By      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
| Creation Date    | 26-Nov-2021                                                                                                                                         |
| Revision Date    | 13-Sep-2025                                                                                                                                         |
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