

## SAFETY DATA SHEET

Version 6.6 Revision Date 08/07/2024 Print Date 08/08/2024

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

#### 1.1 Product identifiers

Product name : 2-Chloropyridine

Product Number : C69802 Brand : Aldrich CAS-No. : 109-09-1

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption

(40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by

MilliporeSigma.

#### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Flammable liquids (Category 4), H227 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 2), H330 Acute toxicity, Dermal (Category 2), H310

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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

Pictogram	
Signal Word	Danger
Hazard Statements H227 H302 H310 + H330 H315 H318 H335 H373	Combustible liquid. Harmful if swallowed. Fatal in contact with skin or if inhaled. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause damage to organs through prolonged or repeated
H410	exposure. Very toxic to aquatic life with long lasting effects.
Precautionary Statements P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No
P260 P262 P264 P270 P271 P273 P280 P284 P301 + P312 + P330 P302 + P350 + P310	smoking.  Do not breathe mist or vapors.  Do not get in eyes, on skin, or on clothing.  Wash skin thoroughly after handling.  Do not eat, drink or smoke when using this product.  Use only outdoors or in a well-ventilated area.  Avoid release to the environment.  Wear protective gloves/ eye protection/ face protection.  Wear respiratory protection.  IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  IF ON SKIN: Gently wash with plenty of soap and water.  Immediately call a POISON CENTER or doctor/ physician.
P302 + P352 P304 + P340 + P310	IF ON SKIN: Wash with plenty of soap and water.  IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P314 P332 + P313 P362 P370 + P378	Get medical advice/ attention if you feel unwell.  If skin irritation occurs: Get medical advice/ attention.  Take off contaminated clothing and wash before reuse.  In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  Collect spillage.
1 3 3 1	concer spinage.

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P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal

plant.

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Formula :  $C_5H_4CIN$ Molecular weight : 113.54 g/mol CAS-No. : 109-09-1 EC-No. : 203-646-3

Component	Classification	Concentration
2-Chloropyridine		
	Flam. Liq. 4; Acute Tox. 4; Acute Tox. 2; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H227, H302, H330, H310, H315, H318, H335, H373,	<= 100 %
	H400, H410 M-Factor - Aquatic Acute:	

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

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

## 4.1 Description of first-aid measures

No data available

## 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

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

No data available

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

Carbon oxides Nitrogen oxides (NOx) Hydrogen chloride gas Combustible.

#### **5.3** Advice for firefighters

No data available

#### 5.4 Further information

No data available

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

#### 6.2 Environmental precautions

No data available

## 6.3 Methods and materials for containment and cleaning up

No data available

#### 6.4 Reference to other sections

For disposal see section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

For precautions see section 2.2.

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

No data available

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

## 8.1 Control parameters

## **Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

## Personal protective equipment

## Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please

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contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Full contact Material: Viton®

Minimum layer thickness: 0.7 mm Break through time: 480 min

Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: butyl-rubber

Minimum layer thickness: 0.7 mm Break through time: 240 min

Material tested:Butoject® (KCL 898)

## **Respiratory protection**

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

## Control of environmental exposure

Prevent product from entering drains.

## **SECTION 9: Physical and chemical properties**

## .1 Information on basic physical and chemical properties

a) Appearance Form: clear, liquid

Color: colorless

b) Odorc) Odor Thresholdd) pHNo data availableNo data available

e) Melting point/ range: -46 °C (-51 °F)

point/freezing point

f) Initial boiling point 166 °C 331 °F at 952 hPa - lit.

and boiling range

g) Flash point 68 °C (154 °F) - closed cup

h) Evaporation rate No data available

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i) Flammability (solid, No data available gas)

Upper/lower No data available j) flammability or explosive limits

k) Vapor pressure 2.2 hPa at 20 °C (68 °F)

Vapor density No data available 1)

1.2 g/cm3 at 25 °C (77 °F) - lit. m) Density

Relative density No data available

n) Water solubility 20 g/l at 20 °C (68 °F)

o) Partition coefficient: log Pow: 1.45 n-octanol/water

p) Autoignition No data available temperature

q) Decomposition No data available temperature

No data available r) Viscosity s) Explosive properties No data available

t) Oxidizing properties none

#### Other safety information 9.2

No data available

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

#### 10.1 Reactivity

No data available

## 10.2 Chemical stability

No data available

## 10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents Strong acids

bases

Peroxides

#### 10.4 Conditions to avoid

No data available

## 10.5 Incompatible materials

No data available

## 10.6 Hazardous decomposition products

In the event of fire: see section 5

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## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - Rat - 342 mg/kg (OECD Test Guideline 401)

LC100 Inhalation - 6 h - < 6.05 mg/l - vapor

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

Remarks: No data available

## Serious eye damage/eye irritation

Eyes - Rabbit

Result: Risk of serious damage to eyes.

(OECD Test Guideline 405)

## Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

Result: Positive results were obtained in some in vitro tests.

Test Type: in vivo assay

Species: Mouse

Method: OECD Test Guideline 474

Result: In vivo tests did not show any chromosomal changes.

## Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

#### Reproductive toxicity

No data available

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Aillipore

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

## 11.2 Additional Information

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.

## **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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Endocrine disrupting properties

No data available

## 12.7 Other adverse effects

No data available

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

## 13.1 Waste treatment methods

No data available

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#### **SECTION 14: Transport information**

DOT (US)

UN number: 2822 Class: 6.1 Packing group: II

Proper shipping name: 2-Chloropyridine

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

**IMDG** 

UN number: 2822 Class: 6.1 Packing group: II EMS-No: F-A, S-A

Proper shipping name: 2-CHLOROPYRIDINE

**IATA** 

UN number: 2822 Class: 6.1 Packing group: II

Proper shipping name: 2-Chloropyridine

## **SECTION 15: Regulatory information**

## **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 : Fire Hazard

**Hazards** Acute Health Hazard

SARA 313 : This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by

SARA Title III, Section 313.

#### **US State Regulations**

#### **Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

#### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

## **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

## **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

#### The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

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#### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

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