

# SAFETY DATA SHEET

Revision Date 24-December-2021 **Revision Number** 5

1. Identification

**Product Name** 2-Chloro-5-nitropyridine

AC109740000; AC109740050; AC109740250; AC109741000 Cat No.:

CAS-No 4548-45-2

**Synonyms** No information available

**Recommended Use** Laboratory chemicals.

Food, drug, pesticide or biocidal product use. Uses advised against

Details of the supplier of the safety data sheet

Company

Manufacturer Importer/Distributor

Acros Organics Fisher Scientific Company Fisher Scientific One Reagent Lane 112 Colonnade Road. One Reagent Lane Fair Lawn, NJ 07410 Fair Lawn, NJ 07410 Ottawa, ON K2E 7L6, Tel: (201) 796-7100

Canada

Tel: 1-800-234-7437

**Emergency Telephone Number** For information **US** call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Skin Corrosion/Irritation Category 2 Serious Eve Damage/Eve Irritation Category 2 Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

**Label Elements** 

Signal Word Warning

**Hazard Statements** 

Causes skin irritation Causes serious eve irritation May cause respiratory irritation



# **Precautionary Statements**

#### Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

#### Response

IF ON SKIN: Wash with plenty of soap and water

IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Call a POISON CENTER/ doctor if you feel unwell

Take off contaminated clothing

# Storage

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

Store locked up

#### **Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. Composition/Information on Ingredients

|   | Component                | CAS-No    | Weight % |
|---|--------------------------|-----------|----------|
| ſ | 2-Chloro-5-nitropyridine | 4548-45-2 | >95      |

# 4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms/effects

**Notes to Physician** 

None reasonably foreseeable.

Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO2). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media No information available

# 2-Chloro-5-nitropyridine

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

## Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

## **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride gas.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 2      | 1            | 0           | N/A              |

# 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation.

**Environmental Precautions** Should not be released into the environment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed

**Up** containers for disposal.

|          | 7. Handling and storage   |
|----------|---|
| Handling | Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. |
| Storage. | Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.  |

# 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous n

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

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

# Personal protective equipment

**Eye Protection** Goggles **Hand Protection** Protective gloves

| Glove material | Breakthrough time | Glove thickness | Glove comments |
|----------------|-------------------|-----------------|----------------|
| Nitrile rubber | See manufacturers | -               |                |

# 2-Chloro-5-nitropyridine

Neoprene Natural rubber PVC recommendations Splash protection only

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

#### **Respiratory Protection**

No protective equipment is needed under normal use conditions.

#### **Environmental exposure controls**

No information available.

## **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

# 9. Physical and chemical properties

Physical State Powder Solid
Appearance Light yellow

Odor No information available Odor Threshold No information available pH No information available

Melting Point/Range 106 - 110 °C / 222.8 - 230 °F

Boiling Point/Range
No information available
No information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper
Lower
No data available
No data available
Vapor Pressure
No information available
No information available

Vapor Density Not applicable

Specific Gravity
Solubility
No information available
Insoluble in water
Partition coefficient; n-octanol/water
No data available

Autoignition TemperatureNo information availableDecomposition TemperatureNo information available

Viscosity
Not applicable
C5 H3 Cl N2 O2

Molecular Weight 158.54

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under recommended storage conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride

gas

**Hazardous Polymerization** No information available.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information Component Information Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin May cause irritation of respiratory tract

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component               | CAS-No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-------------------------|-----------|------------|------------|------------|------------|------------|
| 2-Chloro-5-nitropyridin | 4548-45-2 | Not listed |
| е                       |           |            |            |            |            |            |

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

No information available. **Teratogenicity** 

STOT - single exposure Respiratory system

STOT - repeated exposure None known

**Aspiration hazard** No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

Persistence and Degradability Insoluble in water

**Bioaccumulation/ Accumulation** No information available.

Is not likely mobile in the environment due its low water solubility. Mobility

# 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a **Waste Disposal Methods** 

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT Not regulated **TDG** Not regulated Not regulated IATA IMDG/IMO Not regulated

# 15. Regulatory information

#### International Inventories

| Component                | CAS-No    | DSL   | NDSL     | TSCA | notific | ventory<br>ation -<br>Inactive | EINECS    | ELINCS | NLP   |
|--------------------------|-----------|-------|----------|------|---------|--------------------------------|-----------|--------|-------|
| 2-Chloro-5-nitropyridine | 4548-45-2 | -     | -        | -    | -       | -                              | 224-908-3 | -      | -     |
|                          |           |       |          |      |         |                                |           |        |       |
| Component                | CAS-No    | IECSC | KECL     | ENCS | ISHL    | TCSI                           | AICS      | NZIoC  | PICCS |
| 2-Chloro-5-nitropyridine | 4548-45-2 | -     | KE-05792 | -    | Х       | Х                              | -         | Х      | Х     |

# Legend:

X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

CAS-No

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

## Other International Regulations

Component

## Authorisation/Restrictions according to EU REACH

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

|                          |           |                      | Pollutant            | Potential      | Hazardous<br>Substances (RoHS) |
|--------------------------|-----------|----------------------|----------------------|----------------|--------------------------------|
| 2-Chloro-5-nitropyridine | 4548-45-2 | Not applicable       | Not applicable       | Not applicable | Not applicable                 |
|                          |           |                      |                      |                |                                |
| Component                | CAS-No    | Seveso III Directive | Seveso III Directive | Rotterdam      | Basel Convention               |

Restriction of

| Component                | 0.70 110  | OCTOSO III DII COLITO        | OCTOSO III DII COLITO | rtottor aurii    | Baser Convention  |
|--------------------------|-----------|------------------------------|-----------------------|------------------|-------------------|
|                          |           | (2012/18/EC) -               | (2012/18/EC) -        | Convention (PIC) | (Hazardous Waste) |
|                          |           | <b>Qualifying Quantities</b> | Qualifying Quantities |                  |                   |
|                          |           | for Major Accident           | for Safety Report     |                  |                   |
|                          |           | Notification                 | Requirements          |                  |                   |
| 2-Chloro-5-nitropyridine | 4548-45-2 | Not applicable               | Not applicable        | Not applicable   | Not applicable    |
|                          |           |                              |                       |                  |                   |

# 16. Other information

Regulatory Affairs Prepared By

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OECD HPV

Revision Date 24-December-2021

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Revision Summary This document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Chemicals.

## **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**