

Hazardous according to criteria of Australian Safety and Compensation Council

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

- **Product identifier**
- **Trade name:** **3-Hydroxypicolinic acid**
- **Article number:** 201224
- **CAS Number:** 874-24-8
- **EC number:**  
212-859-0
- **Application of the substance / the preparation** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Bruker Daltonik GmbH  
Fahrenheitstrasse 4  
D-28359 Bremen / Germany  
Tel.: +49(421) 2205-0  
Fax : +49(421) 2205-100  
E-mail: care@bdal.de
- **Informing department:**  
Bruker Daltonik GmbH  
Tel.: +49 (421) 2205-240
- **Emergency telephone number:**  
Emergency Phone : +61 3 9474 7000 ; 1800 278537 ; +49 421 2205 0  
Tel.: +49 (361)730730  
Gemeinsames Giftinformationszentrum (GGIZ) (Poison Information Center)

### 2 Composition/information on ingredients

- **Chemical characterization:** Substances
- **CAS No. Designation:**  
3-Hydroxypyridine-2-Carboxylic Acid
- **Identification number(s):**
- **EC number:** 212-859-0

### 3 Hazards identification

- **Classification of the substance or mixture**



GHS07

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

- **Label elements**

- **GHS label elements**

The substance is classified and labelled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard statements**

Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

(Contd. on page 2)

# Safety data sheet

## According to 91/155 EEC and NOHSC

Printing date 07.09.2011

Revision: 07.09.2011

**Trade name: 3-Hydroxypicolinic acid**

(Contd. of page 1)

### · **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/spray.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

## 4 First aid measures

· **General information** Instantly remove any clothing soiled by the product.

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

· **After swallowing**

Rinse the mouth with water immediately

Instantly call for doctor.

· **Information for doctor** No particular measures are known - treat according to symptoms.

## 5 Firefighting measures

· **Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

· **Protective equipment:** Wear self-contained breathing apparatus.

· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

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

Ensure adequate ventilation

Wear protective clothing.

Avoid contact with eyes and skin.

Avoid causing dust.

· **Environmental precautions:** Do not allow product to reach sewage system or water bodies.

· **Methods and material for containment and cleaning up:**

Collect mechanically.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 8 for information on personal protection equipment.

Clean the accident area carefully.

—AU—

(Contd. on page 3)

# Safety data sheet

## According to 91/155 EEC and NOHSC

Printing date 07.09.2011

Revision: 07.09.2011

**Trade name: 3-Hydroxypicolinic acid**

(Contd. of page 2)

### 7 Handling and storage

- **Handling**
- **Precautions for safe handling**
  - Thorough dedusting.
  - Keep containers tightly sealed.
  - Ensure good ventilation/exhaustion at the workplace.
  - The usual precautionary measures for handling chemicals must be observed.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:**
  - Store only in the original container.
  - Protect from dampness and humidity.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
  - Take off immediately all contaminated clothing
  - Keep away from foodstuffs, beverages and food.
  - Wash hands during breaks and at the end of the work.
  - Avoid contact with the eyes and skin.
- **Breathing equipment:**
  - In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- **Recommended filter device for short term use:**



Filter P1

- **Protection of hands:**



Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Preventive skin protection by use of skin-protecting agents is recommended.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Not suitable are gloves made of the following materials:**

Strong gloves  
Leather gloves

(Contd. on page 4)

# Safety data sheet

## According to 91/155 EEC and NOHSC

Printing date 07.09.2011

Revision: 07.09.2011

**Trade name:** *3-Hydroxypicolinic acid*

(Contd. of page 3)

· **Eye protection:**



Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

### 9 Physical and chemical properties

· **General Information**

· **Appearance:**

**Form:** Crystalline powder

**Colour:** Beige

· **Odour:** Not determined

· **Change in condition**

**Melting point/Melting range:** 213 - 218°C (415 - 424 °F)

**Boiling point/Boiling range:** Not determined

· **Flash point:** Not applicable

· **Inflammability (solid, gaseous)** Product is not inflammable.

· **Danger of explosion:** Product is not explosive.

· **Density** Not determined

· **Solids content:** 100.0 %

· **Other information** No further relevant information available.

### 10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Incompatible materials:**

strong oxidizing agents

strong bases

· **Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

### 11 Toxicological information

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritant effect.

· **Sensitization:** No sensitizing effect known.

### 12 Ecological information

· **Acquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Ecotoxicological effects:** Not determined

· **Additional ecological information:**

· **General notes:**

Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

(Contd. on page 5)

**Safety data sheet**  
According to 91/155 EEC and NOHSC

Printing date 07.09.2011

Revision: 07.09.2011

**Trade name: 3-Hydroxypicolinic acid**

(Contd. of page 4)

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must be specially treated under adherence to official regulations.

- **European waste catalogue**

18 00 00	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 02 00	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 05*	chemicals consisting of or containing dangerous substances

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |  |
|--|--|
| · <b>UN-Number</b>   |  |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void   |
| · <b>UN proper shipping name</b>   |  |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void   |
| · <b>Transport hazard class(es)</b>  |  |
| · <b>ADR, ADN, IMDG, IATA</b>  |  |
| · <b>Class</b>   | Void   |
| · <b>Packing group</b>   |  |
| · <b>ADR, IMDG, IATA</b>   | Void   |
| · <b>Special precautions for user</b>  | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>  | -  |

### 15 Regulatory information

- |   |
|---|
| · <b>Australian Inventory of Chemical Substances</b>  |
| Substance is not listed.  |
| · <b>Standard for the Uniform Scheduling of Drugs and Poisons</b>                           |
| Substance is not listed.  |
| · <b>GHS label elements</b>   |
| The substance is classified and labelled according to the Globally Harmonized System (GHS). |
| · <b>Hazard pictograms</b>  |



GHS07

- **Signal word** Warning

(Contd. on page 6)

**Safety data sheet**  
According to 91/155 EEC and NOHSC

Printing date 07.09.2011

Revision: 07.09.2011

**Trade name: 3-Hydroxypicolinic acid**

(Contd. of page 5)

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/spray.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations**

· **Water hazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.

## 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Changes made since last issue dated 21.08.2007 at the following points: \*

· **Department issuing data specification sheet:**

IGG-AD Ingenieurbüro für Gefahrstoff- und Gefahrgutberatung

Bismarckstraße 10

D-68623 Lampertheim

Fax: 0049-(0)6206-58422      <http://www.igg-ad.de>      [info@igg-ad.de](mailto:info@igg-ad.de)

· **Contact:**

Dr. U. Prinz ([u.prinz@igg-ad.de](mailto:u.prinz@igg-ad.de))

Dipl.-Chem. H. Hinse ([heidrun.hinse@igg-ad.de](mailto:heidrun.hinse@igg-ad.de))

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

· **\* Data compared to the previous version altered.**