# **OTTO CHEMIE PVT LTD**

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-----ISO 9001: 2015-----

# MATERIAL SAFETY DATA SHEFT

## **SECTION 1 Product identifiers**

Product name : 2-Amino pyridine, 99% Product Code: A 2005 CAS-No.: 504-29-0

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

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Dermal (Category 3), H311 Skin corrosion (Sub-category 1A), H314 Serious eye damage (Category 1), H318 Long-term (chronic) aquatic hazard (Category 3), H412 For the full text of the H-Statements mentioned in this Section, see Section 16. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Danger Hazard statement(s) H301 + H311 Toxic if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects. H412 Precautionary statement(s) Do not breathe dusts or mists. P260 P273 Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face P280 protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHÄLED: Remove person to fresh air and keep comfortable P304 + P340 + P310 for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard none Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Danger Hazard statement(s) H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects. H301 + H311 Toxic if swallowed or in contact with skin. Precautionary statement(s) P260 Do not breathe dusts or mists. Wear protective gloves/ protective clothing/ eye protection/ face P280 protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable P304 + P340 + P310 for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard none Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent. bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

3.1 Substances Synonyms : 2-Pyridylamine 2-Pyridinamine 2-AP Formula : C5H6N2 Molecular weight : 94,11 g/mol CAS-No. : 504-29-0 EC-No. : 207-988-4

| Component        | Classification           | Concentration |
|------------------|--------------------------|---------------|
| 2-aminopyridine  |                          |               |
| CAS-No. 504-29-0 | Acute Tox. 3; Skin Corr. | <= 100 %      |
| EC-No. 207-988-4 | 1A; Eye Dam. 1; Aquatic  |               |
|                  | Chronic 3; H301, H311,   |               |
|                  | H314, H318, H412         |               |

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

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

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

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions

(see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area.

Avoid generation of dusts.

6.4 Reference to other sections For disposal see section 13.

# **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition Take precautionary measures against static discharge. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Storage class Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials 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 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles 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 EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L 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 EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Body Protection Flame retardant antistatic protective clothing. Respiratory protection Recommended Filter type: Filter B-(P3) 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. Control of environmental exposure Do not let product enter drains.

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

9.1 Information on basic physical and chemical properties a) Physical state crystalline

- a) Physical state b) Color c) Odor d) Melting point/freezing point e) Initial boiling point and boiling range f) Flammability (solid, gas) g) Úpper/lower flammability or explosive limits h) Flash point i) Autoignition temperature j) Decomposition temperature k) pH I) Viscosity
- m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapour density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information No data available

204 - 210 °C - lit.

Melting point/range: 54 - 58 °C - lit.

No data available

light yellow

No data available

No data available

92 °C - closed cup No data available

No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available No data available No data available

No data available 1,065 g/cm3 at 20 °C No data available No data available

No data available

No data available none

SECTION 10: Stability and reactivity 10.1 Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature). 10.3 Possibility of hazardous reactions Violent reactions possible with: Strong oxidizing agents acids 10.4 Conditions to avoid Strong heating. 10.5 Incompatible materials various plastics, Metals 10.6 Hazardous decomposition products In the event of fire: see section 5

# SECTION 11: Toxicological information

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 200 mg/kg Inhalation: No data available LD50 Dermal - Guinea pig - 500 mg/kg Skin corrosion/irritation Skin - Rabbit

(OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - chicken (OECD Test Guideline 438) Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available 11.2 Additional Information Endocrine disrupting properties Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. RTECS: US1575000 May cause convulsions. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. **SECTION 12: Ecological information** 12.1 Toxicity Toxicity to fish LC50 - Oryzias latipes - 11 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - 35 mg/l - 48 h (OECD Test Guideline 202) EC50 - Tetrahymen pyriformis - 393 mg/l - 60 h Remarks: (ECOTOX Database) Toxicity to algae ErC50 - Pseudokirchneriella subcapitata - 12 mg/l - 72 h (OECD Test Guideline 201) NOEC - Pseudokirchneriella subcapitata - 2,1 mg/l - 72 h (OECD Test Guideline 201) 12.2 Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 9,2 % - Not readily biodegradable. (OECD Test Guideline 301F) 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6 Endocrine disrupting properties Product<sup>.</sup> Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7 Other adverse effects No data available

## SECTION 13: Disposal considerations

13.1 Waste treatment methods No data available

| SECTION 14: Trar<br>14.1 UN number  | nsport information        |                           |            |  |
|---|---------------------------|---------------------------|------------|--|
| ADR/RID: 2671   |                           | IMDG: 2671                | IATA: 2671 |  |
| 14.2 UN proper shi  | nning name                | IMDG. 2071                | IATA. 2071 |  |
| ADR/RID:  | AMINOPYRIDINES            |                           |            |  |
| =   |                           | - )                       |            |  |
| IMDG:   | AMINOPYRIDINES (o-, m-, p | )-)                       |            |  |
| IATA:   | Aminopyridines            |                           |            |  |
| 14.3 Transport haz  | ard class(es)             |                           |            |  |
| ADR/RID: 6.1  |                           | IMDG: 6.1                 | IATA: 6.1  |  |
| 14.4 Packaging gro  | pup                       |                           |            |  |
| ADR/RID: II   |                           | IMDG: II                  | IATA: II   |  |
| 14.5 Environmenta   | l hazards                 |                           |            |  |
| ADR/RID: no   |                           | IMDG Marine pollutant: no | IATA: no   |  |
| 14.6 Special precautions for user   |                           |                           |            |  |
| Tunnel restriction c  | ode : (D/E)               |                           |            |  |
|   | No data available         |                           |            |  |
|   |                           |                           | 200        |  |
| SECTION 15. Reg   | ulatory information       |                           |            |  |
| 15.1 Safety, health and environmental regulations/legislation specific for the        |                           |                           |            |  |
| substance or mixture  |                           |                           |            |  |
| This material safety data sheet complies with the requirements of Regulation (EC) No. |                           |                           |            |  |
| This material safety data sheet complies with the requirements of Regulation (EC) No. |                           |                           |            |  |

substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment For this product a chemical conference more not corride out

For this product a chemical safety assessment was not carried out

## Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.