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AN ISO 9001 : 2000 & 14001 COMPANY



Manufacturers of Sodium Amide, Sodium Alkoxides, Sodium Hydride, Sodium Azide, Tetrazoles, Amino Pyridines,  
Pyridine Derivatives, Cyclic Compounds, Fine Chemicals, Oleo Chemicals & Oleoresins

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

### 1.1 Product identifiers

**Name** : 2-AMINO-4-PICOLINE / 2-AMINO-4-METHYL PYRIDINE  
**Brand** : Alkali Metals Ltd.,  
**Reach registration number** : 211-780-9 (Pre-Registration)  
**CAS No.** : 695-34-1

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

Manufacture of substances and chemical intermediate

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

**Manufacturer** : M/s. Alkali Metals Ltd.,  
B-5, Block-III, IDA, Uppal, Hyderabad-500 039 INDIA  
Tel : 040 – 2720 1179, 2720 2298.  
Fax: 040 – 27201454

### 1.4 Emergency telephone number

Emergency phone no. : Tel : 040 – 2720 1179, 2720 2298.  
Emergency fax no. : Fax: 040 – 27201454

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute toxicity, Oral (Category 3), H301  
Acute toxicity, Inhalation (Category 3), H331  
Acute toxicity, Dermal (Category 3), H311  
Specific target organ toxicity - repeated exposure (Category 2), H373

#### 2.1.2 Additional information

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

### 2.2 Label elements

#### Labeling according to Regulation (EC) No 1272/2008

##### Pictogram



Signal word

Danger

##### Hazard statement(s)

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled  
H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statement(s)**

P261 Avoid breathing dust.  
P280 Wear protective gloves/ protective clothing.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P311 Call a POISON CENTER /doctor.  
Supplemental Hazard information (EU) : Not available

**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.

**3 Composition/information on ingredients**

**3.1 Substances-**

**Synonyms** : 2-Amino-4-Picoline  
**Formula** : C<sub>6</sub>H<sub>8</sub>N<sub>2</sub>  
**Molecular Weight** : 108.14 g/mol  
**CAS no.** : 695-34-1  
**EC No.** : 211-780-9

**3.2 Mixtures**

| Name                     | Weight % | CAS No.  | EC No.    | Classification according to Regulation (EC) No 1278/2008 (CLP)   |
|--------------------------|----------|----------|-----------|--|
| 2-Amino-4-Methylpyridine | <= 100 % | 695-34-1 | 211-780-9 | Acute toxicity, Oral (Category 3), H301<br>Acute toxicity, Inhalation (Category 3), H331<br>Acute toxicity, Dermal (Category 3), H311<br>Specific target organ toxicity - repeated exposure (Category 2), H373 |

**Additional information:**

For full text of H-statements: see SECTION 16.

**4 First aid measures**

**4.1 Description of first aid measures**

**General information:**

Immediately remove any clothing soiled by the product.  
In case of irregular breathing or respiratory arrest provide artificial respiration consult a doctor

**After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.  
Remove victim to fresh air. Enforce rest. If necessary, apply mouth-to-mouth resuscitation or mechanical ventilation. Call a doctor.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly. Consult a doctor

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

**After swallowing:**

Don't give to anything to mouth and wash the mouth with water. Do not attempt to induce vomiting.

**Information for doctor:** Treat symptomatically and supportively.

**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

## 5 Firefighting measures

### 5.1 Extinguishing media

- **Suitable extinguishing agents:** In case of fire use water spray, dry chemical, carbon dioxide, or alcohol resistant foam
- **For safety reasons unsuitable extinguishing agents:** Not available

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

Carbon oxides, Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

Wear fully protective suit. Mouth respiratory protective device.

### 5.4 Further information

No data available

## 6 Accidental release measures

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

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### 6.2 Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water

### 6.3 Methods and material for containment and cleaning up

**6.3.1 For containment:** Pick up and arrange disposal without creating dust

**6.3.2 For cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.3.3 Other information:** No data available

### 6.4 Reference to other sections:

For disposal see section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Protective measures:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Wash thoroughly after handling.

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

**Technical measures and storage conditions:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place Hygroscopic.

**Packaging materials :** Keep container tightly sealed.

**Requirements for storage rooms and vessels:** Do not store together with food and feedstuffs. to copper & lead.

**Storage class:**

Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

### 7.3 Specific end use(s):

## 8 Exposure controls/personal protection

### 8.1 Control parameters

Provide eye wash stations and safety shower.

### 8.2 Exposure controls

**8.2.1 Appropriate engineering controls:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

- **Respiratory protection:** Suitable respiratory protective device recommended.

### 8.2.2 Personal protection equipment:

**8.2.2.1 Eye and face protection:** Tightly sealed goggles and face shields.



### 8.2.2.2 Skin protection:

#### Hand protection:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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.

**Other skin protection:** Complete suit protecting against chemicals, Boots and Protective work clothing

**8.2.2.3 Respiratory protection:** Suitable respiratory protective device recommended. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

**8.2.2.4 Thermal hazards:** No data available

### 8.2.3 Environmental exposure controls:

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

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |  |
|---|--|
| a) Appearance                                   | :Form: Flakes / Powder<br>Colour: Beige to brown |
| b) Odour  | :No data available                               |
| c) Odour Threshold                              | :No data available                               |
| d) pH   | : No data available                              |
| e) Melting point/freezing point                 | : 96 - 99 °C (Lit.)                              |
| f) Initial boiling point and boiling range      | : 230°C(Lit.)                                    |
| g) Flash point                                  | : 118 °C - closed cup                            |
| 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                             | : No data available                              |
| n) Water solubility                             | : No data available                              |
| o) Partition coefficient: noctanol/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                         | : Not explosive                                  |
| t) Oxidizing properties                         | : No data available                              |

### 9.2 Other safety information

: No data available

## 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** : Don't expose to the moisture.
- 10.5 Incompatible materials** : Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides
- 10.6 Hazardous decomposition products:** Carbon oxides, Nitrogen oxides (NOx) In the event of fire: see section 5

## 11 Toxicological information

### 11.1 Information on toxicological effects

a). - **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

|        |      |                        |
|--------|------|------------------------|
| Oral   | LD50 | 200 mg/kg (rat)        |
| Dermal | LD50 | 500 mg/kg (Guinea pig) |

- b). **Skin corrosion/irritation Skin** : No data available
- c) **Serious eye damage/eye irritation Eyes** : No data available
- d). **Respiratory or skin sensitization** : No data available
- e). **Germ cell mutagenicity** : No data available
- f). **Carcinogenicity**  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- g). **Reproductive toxicity** : No data available
- h). **Specific target organ toxicity - single exposure** : No data available
- i). **Specific target organ toxicity - repeated exposure** : May cause damage to organs through prolonged or repeated exposure.
- j). **Aspiration hazard** : No data available
- Additional Information** : RTECS: TJ5150000

## 12 Ecological information

### 12.1 Toxicity

- Toxicity to fish : No data available
- Toxicity to algae : No data available

**12.2 Persistence and degradability** : No data available

**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 Other adverse effects** : No data available

**12.7 Additional information** : No data available

## 13 Disposal considerations

### 13.1 Waste treatment methods

#### Product

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

#### Contaminated packaging

Disposal must be made according to official regulations. Handle contaminated packaging in the same way as the substance itself.

## 14 Transport information

### 14.1 UN number

ADR/RID: 2811

IMDG: 2811

IATA: 2811

### 14.2 UN proper shipping name

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (4-Methyl-2-pyridylamine)

IMDG: TOXIC SOLID, ORGANIC, N.O.S. (4-Methyl-2-pyridylamine)

IATA: Toxic solid, organic n.o.s. (4-Methyl-2-pyridylamine)

### 14.3 Transport hazard class(es)

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

### 14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

: No data available

## 15 Regulatory information

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

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

- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms** Please refer section 2
- **Signal word** Danger
- **Hazard statements** Please refer section 2
- **Precautionary statements** Please refer section 2
- **Safety phrases:** Please refer section 2

#### Other regulations, limitations and prohibitive regulations

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## 16 Other information

### Full text of H-Statements

- H301 : Toxic if swallowed.  
H301 + H311 +H331 : Toxic if swallowed, in contact with skin or if inhaled  
H311 : Toxic in contact with skin.  
H331 : Toxic if inhaled.  
H373 : May cause damage to organs through prolonged or repeated exposure.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### • 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  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association"  
(IATA) ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as

a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the Properties of the product. Alkali Metals Ltd., and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

