

MATERIAL SAFETY DATA SHEET

2-AMINO PYRIDINE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: 2-AMINO PYRIDINE

Company Identification

Alkali Metals Ltd.,

Plot B-5, Block III, Uppal I.D.A,

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SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%	EINECS#
504-29-0	2-AMINOPYRIDINE	98	207-988-4

Hazard Symbols:- T

SECTION 3 - HAZARDS IDENTIFICATION - EMERGENCY OVERVIEW

Appearance

: Slightly yellow crystals and chunks. Flash Point: 92°C.

Danger

: May be fatal if swallowed. May be fatal if absorbed through the skin. Aspiration hazard. Poison! Causes eye and skin irritation. Causes digestive and respiratory tract irritation. May be fatal if inhaled.

Target Organs

: Central nervous system.

Potential Health Effects :-

Eye

: Causes eye irritation. Causes redness and pain.

Skin

: Causes skin irritation. Causes symptoms similar to those of inhalation. Causes redness and pain. Fatal intoxication occurred in a chemical worker who spilled a solution of 2-aminopyridine on his clothing. Two hours later, he developed dizziness, headache, respiratory distress, and convulsions that progressed to respiratory failure and death. Readily absorbed through the skin.

Ingestion

: May be fatal if swallowed. May cause irritation of the digestive tract. Poison by ingestion. May cause effects similar to those for inhalation exposure. An oral dose of 590 mg/kg of 4-aminopyridine in a man produced shortness of breath, nausea, vomiting, hallucinations and distorted perception. Affects the CNS to produce tremor, excitability and convulsions.

Inhalation

: Causes respiratory tract irritation. An exposure to 2-aminopyridine in air resulted in severe headache, weakness, convulsions and a stuporous state that lasted several days. Worker exposed to an estimated concentration of 5.2 ppm experienced severe pounding headache, nausea, flushing of the extremities, and elevated blood pressure.

Chronic

: Not available. None

SECTION 4 - FIRST AID MEASURES

Eyes

: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.

Skin

: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

- Ingestion** : Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Wash mouth out with water.
- Inhalation** : Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Notes to Physician** : Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

- General Information** : As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Containers may explode in the heat of a fire. Combustible solid.
- Extinguishing Media** : In case of fire use water spray, dry chemical, carbon dioxide, or chemical foam.
- Autoignition Temperature** : Not available,
- Flash Point** : 92°C (197.60°F)
- NFPA Rating** : Not published,
- Explosion Limits** : Not available.
- Lower & Upper**

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- General Information** : Use proper personal protective equipment as indicated in Section 8.
- Spills / Leaks** : Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.

SECTION 7 - HANDLING AND STORAGE

- Handling** : Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Avoid contact with heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood.
- Storage** : Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Poison room locked.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

- Engineering Controls** : Use adequate ventilation to keep airborne concentrations low. Use only under a chemical fume hood.

Chemical Name	Exposure Limits		
	ACGIH	NIOSH	OSHA - Final PELs
2-AMINOPYRIDINE	0.5 ppm ; 1.9 mg/m ³	0.5 ppm TWA; 2 mg/m ³ TWA	0.5 ppm TWA; 2 mg/m ³ TWA

- OSHA Vacated PELs** : 2-AMINOPYRIDINE: 0.5 ppm TWA; 2 mg/m³ TWA
- Personal Protective Equipment**
- Eyes** : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.
- Skin** : Wear appropriate protective gloves to prevent skin exposure.

- Clothing** : Wear appropriate protective clothing to prevent skin exposure.
- Respirators** : Follow the OSHA respirator regulations found in 29CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Slightly yellow crystals and chunks
Odour	Faint, characteristic Odour
pH	Not available.
Vapor Pressure	Not available.
Viscosity:-	Not available.
Boiling Point	204 - 210°C @ 760mm Hg
Freezing/Melting Point	59 - 60°C
Decomposition Temp	Not available.
Solubility	Soluble
Specific Gravity/Density	Not available
Molecular Formula	C ₅ H ₆ N ₂
Molecular Weight	94.12
Evaporation Rate	Not available.
Vapor Density	Not available.

SECTION 10 - STABILITY AND REACTIVITY

- Chemical Stability** : Stable under normal temperatures and pressures.
- Conditions to Avoid** : Incompatible materials, ignition sources.
- Incompatibilities with other Materials** : Oxidizing agents, strong acids, acid chlorides, acid anhydrides Hazardous
- Decomposition Products** : Nitrogen oxides, carbon monoxide, carbon dioxide.
- Hazardous Polymerization** : Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

- RTECS#** : CAS# 504-29-0: US1575000
- LD50/LC50** : CAS# 504-29-0: Oral, rat: LD50 = 200 mg/kg.
- Carcinogenicity** : 2-AMINOPYRIDINE - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
- Epidemiology** : No data available.
- Teratogenicity** : No data available.
- Reproductive Effects** : No data available.
- Neurotoxicity** : No data available.
- Mutagenicity** : No data available.
- Other Studies** : No data available.

SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity** : Bioaccumulation: none or low
- Environmental Fate** : Not readily biodegradable.
- Physical/Chemical** : Not available.
- Other** : Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Dispose of in a manner consistent with federal, state, and local regulations.
- RCRA D-Series** : Maximum Concentration of Contaminants: Not listed.
- RCRA D-Series** : Chronic Toxicity Reference Levels: Not listed.
- RCRA F-Series:** : Not listed.
- RCRA P-Series:** : Not listed.
- RCRA U-Series:** : Not listed.
- Not listed as a material banned from land disposal according to RCRA.

SECTION 14 - TRANSPORT INFORMATION

US DOT	: Shipping Name:- AMINOPYRIDINE, Hazard Class:- 6.1, UN Number:- UN2671, Packing Group:- II
IMO	: Shipping Name:- AMINOPYRIDINES, Hazard Class:- 6.1, UN Number:- 2671, Packing Group:- II
IATA	: Shipping Name:- AMINOPYRIDINES, Hazard Class:- 6.1, UN Number:- 2671, Packing Group:- II
RID / ADR	: Shipping Name:- AMINOPYRIDINES, Dangerous Goods Code:- 6.1 (12B), UN Number:- 2671
Canadian TDG	: Shipping Name:- AMINOPYRIDINES, Hazard Class: 6.1, UN Number:- UN2671

SECTION 15 - REGULATORY INFORMATION

TSCA	: CAS# 504-29-0 is listed on the TSCA inventory.
Health & Safety Reporting List	: None of the chemicals are on this list
Chemical Test Rules	: None of the chemicals in this product are under this rule
Section 12b	: None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule	: None of the chemicals in this material have a SNUR.
SARA	: Section 302 (RQ), None of the chemicals in this material have an RQ.
Section 302 (TPQ)	: None of the chemicals in this product have a TPQ.
SARA Code	: CAS # 504-290-0, acute
Section 313	: No chemicals are reportable under Section 313.
Clean Air Act	: This material does not contain any hazardous air pollutants or Class 1 Ozone depleters or Class 2 Ozone depleters.
Clean Water Act	: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA	: None of the chemicals in this product are considered highly hazardous by OSHA.
INTERNATIONAL	: European Labeling in Accordance with EC Directives,
Hazard Symbols	: T,
Safety Phrases	: S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S 38 In case of insufficient ventilation, wear suitable respiratory equipment. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 28B After contact with skin, wash immediately with plenty of water and soap.

Exposure Limits

: CAS# 504-29-0:. OEL-AUSTRALIA:TWA 5 ppm (2 mg/m3). OEL-AUSTRIA:TWA 0.5 ppm (2 mg/m3). OEL-BELGIUM:TWA 0.5 ppm (2 mg/m3). OEL-DENMARK:TWA 0.5 ppm (2 mg/m3). OEL-FINLAND:TWA 0.5 ppm (2 mg/m3);STEL 1.5 ppm (6 mg/m3). OEL-FRANCE:TWA 0.5 ppm (2 mg/m3). OEL-GERMANY:TWA 0.5 ppm (2 mg/m3). OEL-THE NETHERLANDS:TWA 0.5 ppm (2 mg/m3). OEL-THE PHILIPPINES:TWA 0.5 ppm (2 mg/m3). OEL-SWITZERLAND:TWA 0.5 ppm (2 mg/m3). OEL-UNITED KINGDOM:TWA 0.5 ppm (2 mg/m3); STEL 2 ppm (8 mg/m3). OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV. OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

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