

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

## MATERIAL SAFETY DATA SHEET

### 5-AMINOTETRAZOLE MONOHYDRATE

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:- 5-AMINOTETRAZOLE MONOHYDRATE

##### Company Identification

Alkali Metals Ltd.,  
Hyderabad, India

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#### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%	EINECS#
15454-54-3	5-AMINOTETRAZOLE MONOHYDRATE	99%	224-581-7

Hazard Symbols: Not available

#### SECTION 3 - HAZARDS IDENTIFICATION - EMERGENCY OVERVIEW

**Appearance:** Off-white to white crystals.

**Target Organs:-** None known.

##### Potential Health Effects

The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

#### 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.

**Skin:-** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:-** Do not induce vomiting. Allow the victim to rinse his mouth and then to drink 2-4 cupfuls of water, and seek medical advice.

**Inhalation:-** Remove from exposure to fresh air immediately.

**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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:-** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

**Autoignition Temperature** : Not available, **Flash Point** :- Not available

**Explosion Limits, Upper & Lower:-** Not available.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**General Information** :- Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:-** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

## SECTION 7 - HANDLING AND STORAGE

**Handling:-** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage:-** Store in a cool, dry place. Keep container closed when not in use.

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

**Engineering Controls:** - Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure Limits			
Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
5-AMINO TETRAZOLE MONOHYDRATE	None listed	none listed	None listed

**OSHA Vacated PELs:-** 5-Aminotetrazole monohydrate, 99%: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:-** Wear safety glasses and chemical goggles if splashing is possible.

**Skin :-** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Clothing:-** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:-** Wear a NIOSH/MSHA-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off-white to white crystals		
Odor	None reported.	pH	Not available.
Vapor Pressure	Not available.	Vapor Density	Not available.
Evaporation Rate	Not available	Viscosity	Not available.
Boiling Point	Not available	Freezing/ Melting Point	198 - 204°C Decomposes at 199°C
Decomposition Temperature	Not available.	Solubility	Not available.
Specific Gravity/ Density	Not available.	Molecular Formula	CH <sub>3</sub> N <sub>5</sub> * H <sub>2</sub> O
		Molecular Weight	103.06

## **SECTION 10 - STABILITY AND REACTIVITY**

**Chemical Stability:**- Stable under normal temperatures and pressures.

**Conditions to Avoid:**- Incompatible materials, strong oxidants. **Incompatibilities with Other**

**Materials:**- Strong oxidizing agents - strong acids - acid chlorides - acid anhydrides.. **Hazardous**

**Decomposition Products:**- Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

**Hazardous Polymerization:**- Not reported.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

**RTECS#:**- CAS# 15454-54-3: XF7465000

**LD50/LC50:**-Not available. Carcinogenicity:- 5-Aminotetrazole monohydrate, 99% - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

## **SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:**- 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: No information available.

**IMO** :- Not regulated as a hazardous material.

**IATA** :- Not regulated as a hazardous material.

**RID/ADR** :- Not regulated as a hazardous material.

**Canadian TDG** :- No information available.

### SECTION 15 - REGULATORY INFORMATION

#### US FEDERAL

**TSCA** :- CAS# 15454-54-3 is listed on the TSCA inventory.

**Health & Safety Reporting List** :-None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules** :- None of the chemicals in this product are under a Chemical Test 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 under TSCA.

**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.

Section 313, No chemicals are reportable under Section 313.

**Clean Air Act**: This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

**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.

**STATE** :- Not present on state lists from CA, PA, MN, MA, FL, or NJ. California No Significant Risk

Level:None of the chemicals in this product are listed. **European/International Regulations** :-

European Labeling in Accordance with EC Directives. Risk Phrases:- **R 1 Explosive when dry.**

Safety Phrases:- S 16 Keep away from sources of ignition - No smoking.

WGK (Water Danger/Protection) CAS# 15454-54-3:

Canada

CAS# 15454-54-3 is listed on Canada's DSL/NDSL List. WHMIS: Not available. CAS# 15454-54-3 is not listed on Canada's Ingredient Disclosure List.

## **SECTION – 16 ADDITIONAL INFORMATION**

The above information is believed to be accurate and represents the best information currently available with us. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Alkali Metals Ltd., be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Alkali Metals Ltd., has been advised of the possibility of such damages.

