

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

z MATERIAL SAFETY DATA SHEET

4,4'-BIPYRIDINE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name : 4,4'-BIPYRIDINE
Synonyms : 4,4-Dipyridine

Company Identification:

Alkali Metals Ltd.,
Plot B-5, Block III, IDA Uppal
Hyderabad, India - 500 039
Tel :- 0091 40 2756 3002 / 2720 1179 Fax :- 0091 40 2756 2634
Email :- alkalimetals@alkalimetals.com

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name
[553-26-4]	4,4'-BIPYRIDINE

Hazard Symbols : T,Xi
Risk Phrases :20/21-23/24/25-36/37/38

SECTION 3 - HAZARDS IDENTIFICATION EMERGENCY OVERVIEW

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

Potential Health Effects

Eye : Causes eye irritation.
Skin : Causes skin irritation. May be harmful if absorbed through the skin.
Ingestion : Harmful if swallowed. May cause irritation of the digestive tract.
Inhalation : Cause respiratory tract irritation. May be harmful if inhaled.

SECTION 4 - FIRST AID MEASURES

Eyes : Flush eyes with plenty of water, occasionally lifting the upper and lower eye lids. Get medical aid.
Skin : Get medical aid. Flush skin with plenty of water while removing contaminated clothing and shoes.
Ingestion : Get medical aid. Wash mouth out with water
Inhalation : Remove from exposure and move to fresh air immediately.
If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

SECTION 5 - FIRE FIGHTING MEASURES

General Information : As in any fire, wear a self-contained breathing apparatus and Full protective gear.

Extinguishing Media : Use water spray, dry chemical, carbon dioxide or chemical foam.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment.

Spills/Leaks : Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7 - HANDLING and STORAGE

Handling : Avoid breathing dust, vapour, mist or gas.
Avoid contact with skin and eyes.

Storage : Store in a dry place. Store in a tightly closed container.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls : Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Use adequate ventilation to keep airborne concentrations low.

Exposure limits : CAS # 553-26-4: Not available

Personal Protective Equipment :

Eyes : Wear chemical safety goggles.

Skin : Wear appropriate protective gloves to prevent skin exposure.

Clothing : Wear appropriate protective clothing to prevent skin exposure.

Respirators : Wear appropriate respirators where necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Powder.
Appearance	: Off-white to brown
Odor	: Not available.
pH	: Not available.
Vapor Pressure	: Not available.
Viscosity	: Not available.
Boiling Point	: 305°C
Freezing/Melting Point	: 108 to 112 °C
Autoignition temperature	: Not available.
Flash point	: 305 °C
Explosion limits	: Not available
Lower	: Not available
Upper	: Not available
Decomposition Temperature	: Not available.
Solubility in water	: Very slightly soluble
Specific Gravity/Density	: --
Molecular Formula	: C ₁₀ H ₈ N ₂
Molecular Weight	: 156.18

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal temperatures and pressures.
Conditions to Avoid	: Incompatible materials.
Incompatibilities with Other Materials	: Strong oxidizing agents, strong acids.
Hazardous Decomposition Products	: Nitrogen oxides, carbon monoxide, carbon dioxide.
Hazardous Polymerisation	: Not available.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:	: CAS# 553-26-4 : DW1760000
LD50/LC50	: LD50 Oral - rat - 172 mg/kg
Carcinogenicity	: Not available

SECTION 12 - ECOLOGICAL INFORMATION

Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

	IATA	IMO	RID / ADR
Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.
Hazard class	6.1	6.1	6.1
UN number	2811	2811	2811
Packing group	III	III	III

SECTION 15 - REGULATORY INFORMATION

European / International Regulations:- European labelling in accordance with EC directives

Hazard Symbols	: T, XI
Risk Phrases	: R 20/21 - Harmful by inhalation and in contact with skin. R 23/24/25 - Toxic by inhalation, in contact with skin and if swallowed. R36/37/38 - Irritating to eyes, respiratory system and skin.
Safety Phrases	: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical aid. S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WGK (Water Danger/Protection)

Canada	CAS# 553-26-4: 3.
US FEDERAL	CAS# 553-26-4: Not available
TSCA	CAS# 553-26-4 : Not available.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, 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 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 has been advised of the possibility of such damages.



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