

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product and Company Identification

MSDS Name: 2-CHLORO-4-METHYL-5-NITROPYRIDINE

Synonyms: 2-Chloro-5-nitro -4-picoline

Company Identification:

ALKALI METALS LTD.,
B-5, IDA, Uppal, Hyderabad, INDIA – 500 039
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Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name
23056-33-9	2-Chloro-4-methyl-5-nitropyridine

Hazard Symbol : XN

Risk phrases : 20 / 21 / 22 36/37/38

Section 3 - Hazards Identification- EMERGENCY OVERVIEW

Harmful in inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

POTENTIAL HEALTH EFFECTS:

EYE : Causes eye irritation.

SKIN : Causes skin irritation. Harmful if absorbed through the skin.

INGESTION : Harmful if swallowed. May cause irritation of the digestive tract.

INHALATION : May cause respiratory tract irritation. May be harmful if inhaled.

CHRONIC : Not available.

Section 4 - First aid Measures

Eyes : Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin : Flush skin with plenty of water while removing contaminated clothing and shoes. Get medical aid.

Ingestion : Wash mouth out with water. Get medical aid.

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.

Notes to physician : Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

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

information

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, vapor, mist or gas. Avoid contact with skin and eyes.
Storage : Store in a cool, 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 a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure limits : Not available

Personal Protective Equipment:-

Eyes : Wear chemical splash goggles.
Skin : Wear appropriate protective gloves to prevent skin exposure.
Clothing : Wear appropriate protective clothing to prevent skin exposure.
Respirators : Wear appropriate respirators.

Section 9 - Physical and Chemical Properties

Physical state	Crystalline mass / solid
Appearance	Light cream to light brown
Odor	Not available
pH	Not available.
Vapor pressure	Not available
Viscosity	Not available
Boiling point	91 °C @ 5 mm Hg (195.80 °F)
Freezing/melting point	36-40 ⁰ c
Autoignition temperature	Not available.
Flash point	> 110 °C (> 230.00 °F)
Explosion limits, lower	Not available
Explosion limits, upper	Not available.
Decomposition temperature	Not available.
Solubility	Not available
Specific gravity/density	Not available
Molecular formula	C ₆ H ₅ ClN ₂ O ₂
Molecular weight	172.5

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability : Not available
Conditions to avoid : Incompatible materials.
Incompatibilities with other materials : Strong oxidizing agents.
Hazardous decomposition products : Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.
Hazardous polymerisation : Not available

SECTION 11 - TOXICOLOGICAL INFORMATION

Rtecs # : CAS # 23056-33-9 unlisted.;

LD 50 / LC 50: Not available.

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	No information available	No information available	No information available
Hazard class	--	--	--
UN Number	--	--	--
Packing group	--	--	--

Section 15 – Regulatory Information

European/International Regulations.

European labeling in accordance with EC directives

Hazard Symbols: XN

Risk Phrases

R 20 / 21 / 22 Harmful by inhalation, in contact with skin and if swallowed.
R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases

S 26 In case of contact with eyes, rinse immediately with plenty of water and get medical aid.
S 36/37/39 Wear suitable protective clothing, gloves and eye / face protection.

WGK (Water Danger / Protection)

CAS# 23056-33-9 Not available

Canada

None of the chemicals in this product are listed on the DSL or NDSL list.

US Federal

TSCA

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 the 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 the Alkali Metals Ltd., has been advised of the possibility