

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

## MATERIAL SAFETY DATA SHEET SODIUM METHOXIDE (POWDER)

### SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name: Sodium Methoxide, Anhydrous Powder, Sodium Methylate**Company Identification:**Alkali Metals Ltd.,**

Plot B-5, Block III, IDA Uppal,

Hyderabad -500 039. INDIA

Tel :- (0091 40) 2720 1179 / 2720 2298

Fax : (0091 40) 2756 2634 / 2720 1454

Email :- [alkalimetals@alkalimetals.com](mailto:alkalimetals@alkalimetals.com)

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	Chemical Name	%	EINECS #
124-41-4	Sodium Methylate	100%	204-699-5

Hazard Symbols: F C

Risk Phrases: 11 14 34

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Appearance: white. Flash Point: 70 deg C. Danger! Flammable solid. Corrosive. Water-Reactive. Air sensitive. Moisture sensitive. The toxicological properties of this material have not been fully investigated. Causes eye and skin burns. Causes digestive and respiratory tract burns. May ignite or explode on contact with moist air. Target Organs: None known.

#### Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns.

Ingestion: The toxicological properties of this substance have not been fully investigated. May cause burns to the digestive tract.

Inhalation: The toxicological properties of this substance have not been fully investigated. May cause burns to the respiratory tract.

Chronic: No information found.

### 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.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. 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. Will burn if involved in a fire. Water Reactive. Material will react with water and may release a flammable and/or toxic gas. Flammable solid. May re-ignite after fire is extinguished.

Extinguishing Media: Use dry sand or earth to smother fire. DO NOT USE WATER! Use dry chemical. Do NOT get water inside containers. Contact professional fire-fighters immediately.

Autoignition Temperature	:	454 deg C ( 849.20 deg F)
Flash Point	:	70 deg C ( 158.00 deg F)
NFPA Rating	:	Not published.
Explosion Limits	:	
Lower	:	7.30 vol %
Upper	:	36.00 vol %

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Spills/Leaks: Cover with sand, dry lime or soda ash and place in a closed container for disposal. Remove all sources of ignition. Use a spark-proof tool. Do not expose spill to water. Do not get water inside containers.

## SECTION 7 - HANDLING and STORAGE

Handling: Use only in a well ventilated area. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Take precautionary measures against static discharges. Avoid ingestion and inhalation. Do not allow contact with water. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Keep under a nitrogen blanket. Flammables-area.

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA – Final PELs
Sodium Methylate	None listed	None listed	None listed

OSHA Vacated PELs: Sodium methylate: No OSHA Vacated PELs are listed for this chemical.

### 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 or European Standard EN166.

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 29CFR1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Powder
Appearance	:	white
Odor	:	Not available.
pH	:	Not available.
Vapor Pressure	:	50 mm Hg @20 deg C 96mmHg @2
Vapor Density	:	1.1 (air=1)
Evaporation Rate	:	Not available.
Viscosity	:	Not available.
Boiling Point	:	Not available.
Freezing/Melting Point	:	300 deg C
Decomposition Temperature	:	70 deg C
Solubility	:	insoluble in hydrocarbons (benzene, tolu
Specific Gravity/Density	:	Not available.
Molecular Formula	:	CH <sub>3</sub> ONa
Molecular Weight	:	54.02

## SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, exposure to air, excess heat, exposure to moist air or water.

Incompatibilities with Other Materials: Oxidizing agents - chlorinated solvents - acids - light metals - chloroform/methanol.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, sodium oxide.

Hazardous Polymerization: Has not been reported.

## SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 124-41-4	:	PC3570000
LD50/LC50	:	Not available.
Carcinogenicity	:	Sodium methylate
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.		
Epidemiology	:	Not available.
Teratogenicity	:	Not available.
Reproductive Effects	:	Not available.
Neurotoxicity	:	Not available.
Mutagenicity	:	Not available.
Other Studies	:	Not available.

## SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	:	
Water Danger/Protection	:	WGK 1 mg/L/48H
Environmental Fate	:	Not available
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 : None listed.

RCRA D-Series Chronic Toxicity Reference Levels : None listed

RCRA F-Series : None listed.

RCRA P-Series : None listed.

RCRA U-Series : None listed.

Not listed as a material banned from land disposal according to RCRA.

## SECTION 14 - TRANSPORT INFORMATION

### US DOT

Shipping Name : SODIUM METHYLATE  
Hazard Class : 4.2  
UN Number : 1431  
Packing Group : II

### IMO

Shipping Name : SODIUM METHOXIDE  
Hazard Class : 4.2  
UN Number : 1431  
Packing Group : II

### IATA

Shipping Name : SODIUM METHYLATE  
Hazard Class : 4.2  
UN Number : 1431  
Packing Group : II

### RID/ADR

Shipping Name : SODIUM METHYLATE  
Dangerous Goods Code : 4.2(15B)  
UN Number : 1431

### Canadian TDG

Shipping Name : SODIUM METHYLATE  
Hazard Class : 4.2(8)(9.2)  
UN Number : UN1431

## SECTION 15 - REGULATORY INFORMATION

### US FEDERAL

#### TSCA

CAS# 124-41-4 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) : CAS# 124-41-4: final RQ = 1000 pounds (454 kg)

Section 302 (TPQ): None of the chemicals in this product have a TPQ.

SARA Codes : CAS # 124-41-4: acute, flammable.

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:

CAS# 124-41-4 is listed as a Hazardous Substance 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

Sodium methylate can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations : European Labeling in Accordance with EC Directives

Hazard Symbols: F C

#### Risk Phrases:

R 11 Highly flammable.

R 14 Reacts violently with water.

R 34 Causes burns.

#### Safety Phrases:

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

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible).

S 8 Keep container dry.

S 43A In case of fire, use dry chemical (never use water)

WGK (Water Danger/Protection)

CAS# 124-41-4: 1

Canada

CAS# 124-41-4 is listed on Canada's DSL/NDSL List.

This product does not have a WHMIS classification.

CAS# 124-41-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

## **SECTION 16 - ADDITIONAL INFORMATION**

### **MSDS Creation Date: 15/05/2000**

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.

