

ALKALI METALS LTD.,	Material Safety Data Sheet
Product	SODIUM ETHOXIDE

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name : **Sodium Ethoxide, 96%**

Catalog Numbers: 16859-0000, 16859-0010, 16859-0050, 16859-2500, 16859-5000

Synonyms : **Sodium ethylate**

Company Identification:

Alkali Metals Ltd.,

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SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%	EINECS#
141-52-6	Sodium ethoxide	96%	205-487-5

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Highly flammable. Reacts violently with water. Causes burns. Moisture sensitive. Air sensitive.

POTENTIAL HEALTH EFFECTS

Eye : Causes eye burns. May cause blindness. Causes redness and pain.

Skin : Causes skin burns. Causes redness and pain.

Ingestion : Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Causes gastrointestinal tract burns.

Inhalation : May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract.

Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Chronic : Not available.

SECTION 4 – FIRST AID MEASURES

Eyes : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. 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 : If victim is conscious and alert, give 2-4 cupfuls of milk or water. Do NOT induce vomiting and seek IMMEDIATE MEDICAL ADVICE.

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

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. Vapors may form an explosive mixture with air. 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.

Extinguishing Media : Use dry sand or earth to smother fire. DO NOT USE WATER! Use dry chemical.

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. Use a spark-proof tool.

SECTION 7 – HANDLING AND STORAGE

Handling : Minimize dust generation and accumulation. Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Do not allow contact with water. Use only in a chemical fume hood.

Storage : Keep away from sources of ignition. Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container. Keep under a nitrogen blanket.
Flammables-area.

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.

PERSONAL PROTECTIVE EQUIPMENT

Eyes : Wear chemical goggles and a face shield if splashing is possible.

Skin : Wear appropriate protective gloves to prevent skin exposure.

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

Respirators : A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Powder
Appearance	white – yellowish
Odor	Not available.
pH	Not available.
Vapor Pressure	< 0.1 mm Hg @ 2
Viscosity	Not available.
Boiling Point	Not available.
Freezing/Melting Point	260 deg C
Autoignition Temperature	50 deg C (122.00 deg F)
Flash Point	30 deg C (86.00 deg F)
Explosion Limits, Lower	Not available.
	Upper: Not available.
Decomposition Temperature	>260 deg C
Solubility	reacts with water
Specific Gravity/Density	
Molecular Formula	C ₂ H ₅ ONa
Molecular Weight	68.04

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability : Not available.

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

Incompatibilities with Other Materials : Metalen, oxyderend middel, zuur, chloorhoudende solventen.

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

Hazardous Polymerization : Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS# : CAS# 141-52-6 unlisted.

LD50/LC50 : Not available.

Carcinogenicity : Sodium ethoxide - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Siehe aktuellen Eintrag im RTECS für vollständige Informationen.

SECTION 12 - ECOLOGICAL INFORMATION

FOR FURTHER INFORMATION, CONTACT ALKALI METALS LTD.,.

SECTION 13 - DISPOSAL CONSIDERATIONS

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

SECTION 14 – TRANSPORT INFORMATION

	US DOT	IATA	IMO	RID/ADR	Canadian TDG
Shipping Name:	ALKALI METAL ALCOHOLATES, SELF- HEATING, CORROSIVE, N.O.S. (SODIUM ETHOXIDE)	ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O. N.O.S.*	ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O. N.O.S.	ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O. N.O.S.	No information available.
Hazard Class:	4.2	4.2	4.2	-	-
UN Number:	UN3206	3206	3206	3206	-
Packing Group:	II	II	II	-	-
Dangerous Goods Code:	-	-	-	4.2(15B)	-

SECTION 15 - REGULATORY INFORMATION

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# 141-52-6: 1

Canada

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

CAS# 141-52-6 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 141-52-6 is not listed on the TSCA inventory.

It is for research and development use only.

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 the company 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 company has been advised of the possibility of such damages.