

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

SODIUM ETHOXIDE (FOR SYNTHESIS)

1 - Chemical Product

MSDS Name:Sodium Ethoxide
 Synonym:Sodium Ethylat

Cas NO:141-52-6

Product Coad: S0188005000

Molecular Formula: C₂H₅ONa
 Molecular Weight: 68.04

2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
141-52-6	Sodium Ethoxide	94-97%	205-487-5

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Highly flammable. Reacts violently with water. Causes burns.Corrosive.Water-reactive.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:May cause severe and permanent damage to the digestive tract. 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:No information found.

4 - FIRST AID MEASURES

Eyes: Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

Skin:Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Wash clothing before reuse. Destroy contaminated shoes.

Ingestion:If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Do NOT induce vomiting and seek IMMEDIATE MEDICAL ADVICE.

Inhalation:Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.Notes to Physician:

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

Water Reactive. Material will react with water and may release a flammable and/or toxic gas. Use water spray to keep fire-exposed containers cool.

Containers may explode in the heat of a fire.

Flammable solid. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.Extinguishing Media:Use dry sand or earth to smother fire. Use water spray to cool fire-exposed containers. DO NOT USE WATER! Use dry chemical. Do NOT use straight streams of water.

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

7 - HANDLING and STORAGE

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Ground and bond containers when transferring material. 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. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Do not get on skin or in eyes. Use with adequate ventilation. Do not allow contact with water. Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Storage: Keep away from heat, sparks, and flame. Do not store in direct sunlight. Store in a tightly closed container. Keep under a nitrogen blanket. Store in a cool, dry, well-ventilated area away from incompatible substances. Water free area.

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 CAS# 141-52-6: 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 neoprene gloves, apron, and/or clothing.

Clothing: Wear neoprene gloves, apron, and/or clothing.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: yellow-white

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: N/A

Explosion Limits, upper: N/A

Decomposition Temperature: >260 deg C

Solubility in water: reacts

Specific Gravity/Density:

10 - STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions. Conditions to Avoid: Incompatible materials, light, ignition sources, exposure to air, excess heat, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, sodium oxide. Hazardous Polymerization: Has not been reported.

11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 141-52-6 unlisted.

LD50/LC50: Not available.

Carcinogenicity:

Sodium Ethoxide - Not listed by ACGIH, IARC, or NTP.

12 - ECOLOGICAL INFORMATION**13 - DISPOSAL CONSIDERATIONS**

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

14 - TRANSPORT INFORMATION

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MATERIAL SAFETY DATA SHEET (MSDS)**SODIUM ETHOXIDE (FOR SYNTHESIS)**

IATA

Shipping Name: ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE,
N.O.S.*

Hazard Class: 4.2 (8)

UN Number: 3206

Packing Group: II

IMO

Shipping Name: ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE,
N.O.S.

Hazard Class: 4.2 (8)

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RID/ADR

Shipping Name: ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE,
N.O.S.

Hazard Class: 4.2

UN Number: 3206

Packing group: II

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 8 Keep container dry.

S 9 Keep container in a well-ventilated place.

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 33 Take precautionary measures against static discharges.

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

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

WGK (Water Danger/Protection)

CAS# 141-52-6: 1

CAS# 141-52-6 is listed on Canada's DSL List.

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

TSCA CAS# 141-52-6 is listed on the TSCA inventory.

16. Other Information

Product Use: Laboratory Reagent.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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