

EMS CATALOG # : 21150
EMS PRODUCT : Sodium Ethylate
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MATERIAL SAFETY DATA SHEET

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FOR PRODUCT AND SALES INFORMATION

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PRODUCT IDENTIFICATION

COMMON NAME: Sodium Ethoxide
COMMERCIAL NAME(S): Not available.
SYNONYM: Sodium Ethylate
CHEMICAL NAME: Sodium Ethoxide
CHEMICAL FAMILY: Not available.
CHEMICAL FORMULA: C₂-H₅-O-Na
CAS# : 141-52-6
RTECS: Not available.
TSCA: TSCA 8(b) inventory: Sodium Ethoxide
CI# : Not available.

COMPOSITION AND INFORMATION ON INGREDIENTS

NAME: Sodium Ethoxide

CAS#: 141-52-6

TWA(mg/m³):

STEL (mg/m³):

% BY WEIGHT: 100

TOXICOLOGICAL DATA ON INGREDIENTS:

ORAL (LD50): Acute:

DERMAL (LD50): Acute:

VAPOR (LC50): Acute:

HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant).

POTENTIAL CHRONIC HEALTH EFFECTS:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.

FIRST AID MEASURES

EYE CONTACT: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

SERIOUS SKIN CONTACT: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SERIOUS INHALATION: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention.

INGESTION: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

SERIOUS INGESTION: Not available.

FIRE AND EXPLOSION DATA

FLAMMABILITY OF THE PRODUCT: Flammable.

AUTO-IGNITION TEMPERATURE: Not available.

FLASH POINTS: Closed Cup: Between 61°C (142°F) and 93.3°C (200°F)

FLAMMABLE LIMITS: Not available.

PRODUCTS OF COMBUSTION: The products are carbon oxides (CO, CO₂).

FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES: Flammable in presence of open flames and sparks, of heat.

EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:

RISKS OF EXPLOSION OF THE PRODUCT IN PRESENCE OF MECHANICAL

IMPACT: Not available.

RISKS OF EXPLOSION OF THE PRODUCT IN PRESENCE OF STATIC

DISCHARGE: Not available.

FIRE FIGHTING MEDIA AND INSTRUCTIONS: Flammable solid.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build up, autoignition or explosion.

SPECIAL REMARKS ON FIRE HAZARDS: Not available.

SPECIAL REMARKS ON EXPLOSION HAZARDS: Not available.

ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

LARGE SPILL: Spontaneously combustible solid. Stop leak if without risk. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Obtain advice on use of water as spilled material may react with it. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Cover with wet earth, sand or other non-combustible material. Call for assistance on disposal.

HANDLING AND STORAGE

PRECAUTIONS: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with the skin and eyes.

STORAGE: Store in a segregated and approved area. Keep in a cool and ventilated area away from combustible materials. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

PERSONAL PROTECTION: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

PERSONAL PROTECTION IN CASE OF A LARGE SPILL: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

EXPOSURE LIMITS: Not available.

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE AND APPEARANCE: Solid.

ODOR: Not available.

TASTE: Not available.

COLOR: White to yellowish.

MOLECULAR WEIGHT: 68.05 g/mole.

pH (1% SOLN/WATER): Not available.

BOILING POINT: Not available.

MELTING POINT: Not available.

CRITICAL TEMPERATURE: Not available.

SPECIFIC GRAVITY: Not available.

VAPOR PRESSURE: Not applicable.

VAPOR DENSITY: Not available.

VOLATILITY: Not available.

ODOR THRESHOLD: Not available.

WATER/OIL DIST. COEFF.: Not available.

IONICITY (IN WATER): Not available.

DISPERSION PROPERTIES: Not available.

SOLUBILITY: Not available.

STABILITY AND REACTIVITY DATA

STABILITY: The product is stable.

INSTABILITY TEMPERATURE: Not available.

CONDITIONS OF INSTABILITY: Not available.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES: Not available.

CORROSIVITY: Not available.

SPECIAL REMARKS ON REACTIVITY: May react with water to form a caustic soda solution and ethanol.

SPECIAL REMARKS ON CORROSIVITY: Not available.

POLYMERIZATION: Will not occur.

TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: Eye contact. Inhalation. Ingestion.

TOXICITY TO ANIMALS: Not available.

CHRONIC EFFECTS ON HUMANS: Causes damage to the following organs: upper respiratory tract.

OTHER TOXIC EFFECTS ON HUMANS: Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS: Not available.

SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS: Not available.

ECOLOGICAL INFORMATION

ECOTOXICITY: Not available.

BOD5 AND COD: Not available.

PRODUCTS OF BIODEGRADATION: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

TOXICITY OF THE PRODUCTS OF BIODEGRADATION: The product itself and its products of degradation are not toxic.

SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION: Not available.

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

TRANSPORT INFORMATION

DOT CLASSIFICATION: Class 4.2: Spontaneously combustible substance.

IDENTIFICATION: Alkali Metal Alcoholate, n.o.s. (Sodium Ethoxide) UNNA: UN3206
PG: III

SPECIAL PROVISIONS FOR TRANSPORT: Not available.

OTHER REGULATORY INFORMATION

FEDERAL AND STATE REGULATIONS:

No products were found.

OTHER REGULATIONS:

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

OTHER CLASSIFICATIONS:

WHMIS (CANADA): Not controlled under WHMIS (Canada).

DSCLA (EEC):

R36/37/38-Irritating to eyes, respiratory system and skin

S2-Keep out of the reach of children.

S45-If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

HEALTH HAZARD:	2
FIRE HAZARD:	2
REACTIVITY:	1
PERSONAL PROTECTION:	E

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)

HEALTH:	2
FLAMMABILITY:	2
REACTIVITY:	0
SPECIFIC HAZARD:	

PROTECTIVE EQUIPMENT:

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.