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## Material Safety Data Sheet Sodium Methoxide

ACC# 21380

Section 1 - Chemical Product and Company Identification

**MSDS Name:** Sodium Methoxide  
**Catalog Numbers:** AC173120020, S335 100, S335-100, S335100  
**Synonyms:** Sodium Methylate  
**Company Identification:**  
 Fisher Scientific  
 1 Reagent Lane  
 Fairlawn, NJ 07410  
**For information, call:** 201-796-7100  
**Emergency Number:** 201-796-7100  
**For CHEMTREC assistance, call:** 800-424-9300  
**For International CHEMTREC assistance, call:** 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
124-41-4	Sodium Methoxide	~100	204-699-5

**Hazard Symbols:** XN F C  
**Risk Phrases:** 11 14 22 34

Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Appearance: white. **Danger!** Flammable solid. Causes respiratory tractirritation. Corrosive. Water-Reactive. Harmful if swallowed. Causessevere eye and skin burns. May cause severe digestive tractirritation with possible burns.

**Target Organs:** None known.

#### Potential Health Effects

**Eye:** Causes severe eye burns. May cause eye injury.

**Skin:** Causes severe burns.

**Ingestion:** Harmful if swallowed. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.

**Inhalation:** Causes respiratory tract irritation.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis.

### 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. Do NOT allow victim to rub or keep eyes closed.

**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. Discard contaminated clothing in a manner which limits further exposure. 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. Get medical aid immediately.

**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 supportively.

### Section 5 - Firefighting 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. Reacts violently with water giving off flammable gas which may explode. Combustion generates toxic fumes. Flammable solid. May be ignited by heat, sparks, and flame. May re-ignite after fire is extinguished.

**Extinguishing Media:** Do NOT get water inside containers. Cool containers with flooding quantities of water until well after fire is out. DO NOT USE WATER OR FOAM. For small fires use dry chemical, soda ash, lime or sand. For large fires use dry sand, dry chemical, soda ash or lime or withdraw from area and let fire burn.

**Autoignition Temperature:** 88 deg C (190.40 deg F)

**Flash Point:** Not available.(estimated) Health: 3; Flammability: 2; Reactivity: 0 Explosion Limits, Lower: 7.30 Upper: 36.00

### Section 6 - Accidental Release Measures

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

**Spills/Leaks:** Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Do not get water on spilled substances or inside containers.

### Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. 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. Avoid contact with heat, sparks and flame. Do not ingest or inhale. 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. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from strong acids. Keep away from water. 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 Methoxide	none listed	none listed	none listed

**OSHA Vacated PELs:** Sodium Methoxide: 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 29CFR 1910.134 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:** Solid

**Appearance:** white

**Odor:** odorless

**pH:** Not available.

**Vapor Pressure:** 50 mmHg @ 20 C

**Vapor Density:** Not available.

**Evaporation Rate:**

**Viscosity:** Not applicable.

**Boiling Point:** decomposes

**Freezing/Melting Point:** 127 deg C

**Decomposition Temperature:** 70 deg C

**Solubility:** decomposes

**Specific Gravity/Density:** 1.1

**Molecular Formula:** NaCH<sub>3</sub>O

**Molecular Weight:**

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, moisture, exposure to air, contact with water, oxidizers.

**Incompatibilities with Other Materials:** Reacts violently with acids, water, chloroform, 4-chloronitrobenzene, perfluorocyclopropane.

**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:**  
 CAS# 124-41-4: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
**Epidemiology:** No information present.  
**Teratogenicity:** No information present.  
**Reproductive Effects:** No information present.  
**Neurotoxicity:** No information present.  
**Mutagenicity:** No information present.  
**Other Studies:** No data available.

### Section 12 - Ecological Information

**Ecotoxicity:** Not available.  
**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.

### Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
<b>Shipping Name:</b>	SODIUM METHYLATE	No information available.	No information available.	No information available. SODIUM METHYLATE	
<b>Hazard Class:</b>	4.2			4.2(8)(9.2)	
<b>UN Number:</b>	UN1431			UN1431	
<b>Packing Group:</b>	II			II	

### 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 depleters. This material does not contain any Class 2 Ozone depleters.

**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**

CAS# 124-41-4 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:**

XN F C

**Risk Phrases:**

R 11 Highly flammable. R 14 Reacts violently with water. R 22 Harmful if swallowed. 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 43 In case of fire, use ... (indicate in the space the precise type of fire-fighting equipment. If water increases the risk, add - never use water). S 8 Keep container dry.

**WGK (Water Danger/Protection)**

CAS# 124-41-4: 1

**Canada**

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

This product has a WHMIS classification of B4, D2B.

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

**Exposure Limits****Section 16 - Additional Information**

**MSDS Creation Date:** 2/18/1995

**Revision #16 Date:** 9/24/1998

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