



THE POWER OF THREE<sup>3</sup>  
**PHARMCO-AAPER**  
AND COMMERCIAL ALCOHOLS

**Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300**

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## **MATERIAL SAFETY DATA SHEETS**

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Manufacturer: PHARMCO-AAPER  
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### **SODIUM METHYLATE SOLUTION, 30%**

#### **Section 1 - Product and Company Information**

Product Name SODIUM METHYLATE SOLUTION, 30%

#### **Section 2 - Composition/Information on Ingredient**

Substance Name

SODIUM METHOXIDE, 30 WT% SOLUTION

Ingredient Name CAS # Percent SARA 313

METHANOL 67-56-1 70 Yes

SODIUM METHOXIDE 124-41-4 30 No

Formula CH<sub>3</sub>NaO

#### **Section 3 - Hazards Identification**

EMERGENCY OVERVIEW

Flammable (USA) Highly Flammable (EU). Toxic.

Reacts violently with water. Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Target organ(s): Kidneys. Eyes.

HMS RATING

HEALTH: 3\*

FLAMMABILITY: 3

REACTIVITY: 2

SPECIAL HAZARD(S): Water reactive

NFPA RATING

HEALTH: 3

FLAMMABILITY: 3  
REACTIVITY: 2  
SPECIAL HAZARD(S): Water reactive  
\*additional chronic hazards present.  
For additional information on toxicity, please refer to  
Section 11.

#### **Section 4 - First Aid Measures**

##### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is  
conscious. Call a physician immediately.

##### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give  
artificial respiration. If breathing is difficult, give  
oxygen.

##### DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water  
for at least 15 minutes. Remove contaminated clothing and  
shoes.

Call a physician.

##### EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of  
water for at least 15 minutes. Assure adequate flushing by  
separating the eyelids with fingers. Call a physician.

#### **Section 5 - Fire Fighting Measures**

##### FLAMMABLE HAZARDS

Flammable Hazards: Yes

##### EXPLOSION HAZARDS

Vapor may travel considerable distance to source of ignition  
and flash back. Container explosion may occur under fire  
conditions.

##### FLASH POINT

91.4 °F 33 °C Method: closed cup

##### EXPLOSION LIMITS

Lower: 5.5 % Upper: 26.5 %

##### AUTOIGNITION TEMP

315 °C

##### FLAMMABILITY N/A

##### EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate  
foam.

Unsuitable: Do not use water.

##### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus  
and protective clothing to prevent contact with skin and eyes.  
Specific Hazard(s): Flammable liquid. Emits toxic fumes under  
fire conditions. Water reactive material.

#### **Section 6 - Accidental Release Measures**

##### PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition. PROCEDURE(S)  
OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and  
heavy rubber gloves.

##### METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

**ENVIRONMENTAL PRECAUTION(S)**

Do not allow material to enter drains or water courses. Avoid contaminating sewers and waterways with this material.

**Section 7 - Handling and Storage**

**HANDLING**

User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not use if skin is cut or scratched. Wash thoroughly after handling.

**STORAGE**

Suitable: Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place. Store under argon. Incompatible Materials: Do not allow contact with water

**Section 8 - Exposure Controls / PPE**

**ENGINEERING CONTROLS**

Safety shower and eye bath. Use nonsparking tools. Use only in a chemical fume hood.

**PERSONAL PROTECTIVE EQUIPMENT**

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Use supplied-air or SCBA respirators. Europe permits the use of type AXBEK full-face cartridge respirators (EN 14387).

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES Wash thoroughly after handling.

Discard contaminated clothing and shoes.

**EXPOSURE LIMITS**

Country Source Type Value

Poland NDS 100 MG/M3

Poland NDSch 300 MG/M3

Poland NDSP -

**Section 9 - Physical/Chemical Properties**

Appearance Physical State: Liquid

Property Value At Temperature or Pressure

Molecular Weight 54.02 AMU

pH N/A

BP/BP Range 93 °C

MP/MP Range < 6 °C

Freezing Point N/A

Vapor Pressure 34 mbar 20 °C

Vapor Density N/A

Saturated Vapor Conc. N/A

SG/Density 0.97 g/cm3

Bulk Density N/A

Odor Threshold N/A

Volatile% N/A

VOC Content N/A

Water Content N/A

Solvent Content N/A  
Evaporation Rate N/A  
Viscosity 0.076 Pas 20 °C  
Surface Tension N/A  
Partition Coefficient N/A  
Decomposition Temp. N/A  
Flash Point 91.4 °F 33 °C Method: closed cup  
Explosion Limits Lower: 5.5 %  
Upper: 26.5 %  
Flammability N/A  
Autoignition Temp 315 °C  
Refractive Index N/A  
Optical Rotation N/A  
Miscellaneous Data N/A  
Solubility N/A  
N/A = not available

### **Section 10 - Stability and Reactivity**

#### STABILITY

Stable: Stable.

Conditions to Avoid: Do not allow water to enter container because of violent reaction.

Materials to Avoid: Water, Acids, Acid chlorides, Acid anhydrides, Alkali metals, Chlorinated solvents, Oxidizing agents, Reducing agents.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

#### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

### **Section 11 - Toxicological Information**

#### ROUTE OF EXPOSURE

Skin Contact: Causes burns.

Skin Absorption: Toxic if absorbed through skin.

Eye Contact: Causes burns.

Inhalation: Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: Toxic if swallowed.

#### TARGET ORGAN(S) OR SYSTEM(S)

Eyes. Kidneys. Liver. Heart.

#### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

### **Section 12 - Ecological Information**

No data available.

### **Section 13 - Disposal Considerations**

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION  
Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

### **Section 14 - Transport Information**

DOT

Proper Shipping Name: Sodium methylate solutions [in alcohol]

UN#: 1289

Class: 3

Packing Group: Packing Group III

Hazard Label: Flammable liquid

Hazard Label: Corrosive

PIH: Not PIH

IATA

Proper Shipping Name: Sodium methylate solution

IATA UN Number: 1289

Hazard Class: 3

Packing Group: III

### **Section 15 - Regulatory Information**

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: T-C

Indication of Danger: Toxic. Corrosive.

R: 23/24/25-10-39/23/24/25-34

Risk Statements: Toxic by inhalation, in contact with skin and if swallowed. Flammable. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Causes burns.

S: 16-26-36/37/39-45

Safety Statements: Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Flammable (USA) Highly Flammable (EU). Toxic.

Risk Statements: Reacts violently with water. Toxic by inhalation, in contact with skin and if swallowed. Causes burns.

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Safety Statements: Keep container tightly closed. Keep away from sources of ignition - no smoking. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US Statements: Target organ(s): Kidneys. Eyes.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: Yes

NOTES: This product is or contains a component that is subject to SARA313 reporting requirements.

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

**Section 16 - Other Information**

The information contained herein is based on data considered to be accurate based on the material as packaged. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's obligation to determine the conditions of safe use of the product. While this MSDS is based on technical data judged to be reliable, PHARMCO-AAPER assumes not responsibility for the completeness or accuracy of the information contained herein.