

# Safety Data Sheet

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Chemical Name Sodium Methoxide

Catalogue # S645400

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

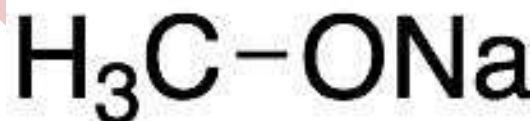
Product Uses To be used only for scientific research and development. Not for use in humans or animals.

### 1.3 Details of the Supplier of the Safety Data Sheet

Company Will be updated as per company.

### 1.4 Emergency Telephone Number

Emergency# Will be updated as per company.



## 2. HAZARDS IDENTIFICATION

### 2.1/2.2 Classification of the Substance or Mixture and Label Elements

#### GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Flammable Solid (Category 1)  
Self-heating substances (Category 1)  
Corrosive to Metals (Category 1)  
Acute Toxicity, Oral (Category 4)  
Skin Corrosion (Category 1A)  
Eye Damage/Irritation (Category 1)

#### GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word Danger



#### GHS Hazard Statements

H228 Flammable solid.  
H251 Self-heating: may catch fire.  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

#### GHS Precautionary Statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P234 Keep only in original container.  
P240 Ground/bond container and receiving equipment.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301/P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330	Rinse mouth.
P304/P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician
P305/P351/P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

## **2.3 Unclassified Hazards/Hazards Not Otherwise Classified**

No data available.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.1 Substances**

**Molecular Formula:** CH<sub>3</sub>NaO

**Molecular Weight:** 54.02

**CAS Registry #:** 124-41-4

**EC#:** 204-699-5

### **Synonyms**

Methanol Sodium Salt; Sodium Methoxide; Feldalat NM; Methoxysodium; SM 24; SM 28; Sodium Methanolate; Sodium Methoxylate; Sodium Methylate

### **3.2 Mixtures**

Not a mixture.

## **4. FIRST AID MEASURES**

### **4.1 Description of First Aid Measures**

#### **General Advice**

If medical attention is required, show this safety data sheet to the doctor.

#### **If Inhaled**

If inhaled, move casualty to fresh air. If not breathing, give artificial respiration and consult a physician.

#### **In Case of Skin Contact**

Remove contaminated clothing and shoes. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### **In Case of Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

#### **If Swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

#### **Self-protection of the first aider**

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

### **4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

### **4.3 Indication of any Immediate Medical Attention and Special Treatment Needed**

No data available.

## **5. FIREFIGHTING MEASURES**

### **5.1 Extinguishing Media**

Dry powder

### **5.2 Special Hazards Arising from the Substance or Mixture**

Carbon oxides, Sodium oxides

### **5.3 Advice for Firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

### **5.4 Further Information**

Material is water reactive and may release flammable or otherwise reactive gases upon exposure to water.

## 6. ACCIDENTAL RELEASE MEASURES

### **6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

Use recommended personal protective equipment (see Section 8). Adequate ventilation must be provided to ensure vapours or mists are not inhaled. Vapours are heavier than air and may accumulate in low areas. All sources of ignition, including sources of static discharge, must be removed from area.

### **6.2 Environmental Precautions**

Material should not be allowed to enter the environment. Prevent further spillage or discharge into drains, if safe to do so.

### **6.3 Methods and Materials for Containment and Cleaning Up**

Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13).

### **6.4 Reference to Other Sections**

For protective equipment, refer to Section 8. For disposal, see Section 13.

## 7. HANDLING AND STORAGE

### **7.1 Precautions for Safe Handling**

Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of vapours and mists. Remove all sources of ignition and take precautionary measures to prevent the buildup of electrostatic discharge (ground and bond containers as appropriate). No smoking, eating or drinking around this material. Wash hands after use.

### **7.2 Conditions for Safe Storage, Including any Incompatibilities#**

Ensure container is kept securely closed before and after use. Keep in a well ventilated area and do not store with strong oxidizers or other incompatible materials (see Section 10).

Storage conditions: 4°C

### **7.3 Specific End Uses**

For scientific research and development only. Not for use in humans or animals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **8.1 Control Parameters**

Contains no components with established occupational exposure limits.

### **8.2 Exposure Controls**

#### **Appropriate Engineering Controls**

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

#### **Personal Protective Equipment**

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

#### **Eye/Face Protection**

Safety goggles or face shield. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

#### **Skin Protection**

Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

Gloves used for incidental exposures (splash protection) should be designated as "chemical resistant" by EU standard EN 374 with the resistance codes corresponding to the anticipated use of the material. Unrated gloves are not recommended.

Suggested gloves: AnsellPro Sol-Vex nitrile gloves style 37-175, 15 mil thickness.

Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated "chemical resistant" as per EN 734 with the resistance codes corresponding to the anticipated use of the material.

Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness.

Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

## Body Protection

Fire resistant (Nomex) coveralls or chemical-resistant bodysuit (laminated Tychem SL or equivalent).

## Respiratory Protection

Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on Basic Physical and Chemical Properties

### A) Appearance

White Solid

### C) Odour Threshold

No data available

### E) Melting Point/Freezing Point

>300°C

### G) Flash point

No data available

### I) Flammability (Solid/Gas)

No data available

### K) Vapour Pressure

No data available

### M) Relative Density

No data available

### O) Partition Coefficient: n-octanol/water

No data available

### Q) Decomposition Temperature

No data available

### S) Explosive Properties

No data available

### B) Odour

No data available

### D) pH

No data available

### F) Initial Boiling Point/Boiling Range

No data available

### H) Evaporation Rate

No data available

### J) Upper/Lower Flammability/Explosive Limits

No data available

### L) Vapour Density

No data available

### N) Solubility

Methanol, Water

### P) Auto-Ignition Temperature

No data available

### R) Viscosity

No data available

### T) Oxidizing Properties

No data available

## 9.2 Other Information

no data available

# 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

No data available.

## 10.2 Chemical Stability

Stable under recommended storage conditions.

## 10.3 Possibility of Hazardous Reactions

Reacts violently with water.

## 10.4 Conditions to Avoid

Exposure to moisture.

## 10.5 Incompatible Materials

Acids, Chlorinated solvents, Water.

## 10.6 Hazardous Decomposition Products

In the event of fire: See section 5. Other decomposition products: No data available.

# 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on Toxicological Effects

### A) Acute Toxicity

Oral LD50: Rat - 2,037 mg/kg

Inhalation LC50: No data available.

Dermal LD50: No data available.

### B) Skin Corrosion/Irritation

No data available

### C) Serious Eye Damage/Irritation

Corrosive - causes skin and eye burns. May also cause respiratory tract damage.

### D) Respiratory or Skin Sensitization

No data available

### E) Germ Cell Mutagenicity

No data available

**F) Carcinogenicity**

No data available

**G) Reproductive Toxicity/Teratogenicity**

No data available

**H) Single Target Organ Toxicity - Single Exposure**

No data available

**I) Single Target Organ Toxicity - Repeated Exposure**

No data available

**J) Aspiration Hazard**

No data available

**K) Potential Health Effects and Routes of Exposure**

**Inhalation**

May be harmful if inhaled. Material is extremely destructive to the mucous membranes and respiratory tract.

**Ingestion**

Harmful if swallowed.

**Skin**

May be harmful if absorbed through skin. Causes skin burns.

**Eyes**

Causes severe eye burns and possible permanent eye damage.

**L) Signs and Symptoms of Exposure**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

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

**M) Additional Information**

RTECS: PC3570000

## 12. ECOLOGICAL INFORMATION

**12.1 Toxicity**

No data available.

**12.2 Persistence and Degradability**

No data available.

**12.3 Bioaccumulative Potential**

No data available.

**12.4 Mobility in Soil**

No data available.

**12.5 Results of PBT and vPvB Assessment**

No data available.

**12.6 Other Adverse Effects**

No data available.

## 13. DISPOSAL CONSIDERATIONS

**13.1 Waste Treatment Methods**

**A) Product**

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

**B) Contaminated Packaging**

Dispose of as above.

**C) Other Considerations**

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

## 14. TRANSPORT INFORMATION

**14.1 UN Number**

DOT (US): UN1431

IATA: UN1431

IMDG: UN1431

ADR/RID: UN1431

**14.2 UN Proper Shipping Name**

DOT (US)/IATA:

Sodium methylate

IMDG/ARD/RID:  
SODIUM METHYLATE

**14.3 Transport Hazard Class(es)**

DOT (US): 4.2 (8) IATA: 4.2 (8) IMDG: 4.2 (8) ADR/RID: 4.2 (8)

**14.4 Packing Group**

DOT (US): II IATA: II IMDG: II ADR/RID: II

**14.5 Environmental Hazards**

DOT (US): None IATA: None IMDG: None ADR/RID: None

**14.6 Special Precautions for User**

None

**15. REGULATORY INFORMATION**

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

**A) Canada**

**DSL/NDSL Status:** This product or a component of this product is registered on the Canadian DSL/NDSL.

**B) United States**

**TSCA Status:** This product or a component is listed on the US EPA TSCA.

**C) European Union**

**ECHA Status:** This product or a component is registered with the EU ECHA.

**15.2 Chemical Safety Assessment**

No data available

**16. OTHER INFORMATION**

**16.1 Revision History**

Original Publication Date: N/A

**16.2 List of Abbreviations**

LD50	Median lethal dose of a substance required to kill 50% of a test population.
LC50	Medial lethal concentration of a substance required to kill 50% of a test population.
LDLo	Lowest known lethal dose
TDLo	Lowest known toxic dose
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances

**16.3 Further Information**

Copyright 2015. Copies may be made for internal use only. The above information is believed to be correct to the best of our knowledge, but is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.

**Disclaimer**

The Final Document will be available at the time of consignment.

# Can vary as per company.

**End of Safety Data Sheet.**