

# Material Safety Data Sheet

SODIUM METHOXIDE 30% SOLUTION (RXSOL-19-1621-025)



## 1. Product and Company Identification

Product Name SODIUM METHOXIDE 30% SOLUTION

Part Number RXSOL-19-1621-025

### Company Details:

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
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## 2. Composition / information on ingredients

| Chemical Name    | CAS      | EC number | Weight       | Formula             |
|------------------|----------|-----------|--------------|---------------------|
| Sodium methylate | 124-41-4 | 204-699-5 | >= 20 - 30 % | CH <sub>3</sub> NaO |
| Methanol         | 67-56-1  | 200-659-6 | >= 70 - 90 % | CH <sub>3</sub> NaO |

## 3. Hazards Identification

Signal Word Danger

Hazard Statements H225 Highly flammable liquid and vapor. H290 May be corrosive to metals. H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H370 Causes damage to organs (Eyes, Central nervous system).

Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Supplemental Hazard Statements EUH014 Reacts violently with water.

Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Reacts violently with water.

## 4. First Aid Measures

General advice First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

Eye Contact After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Swallowed                                                                  | After swallowing: fresh air. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage). Call a doctor immediately (mention methanol ingestion). Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again (approx. 0.3 ml of a 40% alcoholic beverage/kg body weight/hour). Do not attempt to neutralise. |
| Skin Contact                                                               | In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.                                                                                                                                                                                                                                                                                                 |
| Inhalation                                                                 | Remove patient to fresh air, keep warm and at rest and get medical assistance in necessary.                                                                                                                                                                                                                                                                                                                                           |
| Ingestion                                                                  | Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.                                                                                                                                                                                                                                                                            |
| Most important symptoms and effects, both acute and delaye                 | No data available                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Indication of any immediate medical attention and special treatment needed | No data available                                                                                                                                                                                                                                                                                                                                                                                                                     |

## 5. Fire-fighting Measures

|                                                       |                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                                          | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                                                                                                                                                                      |
| Suitable extinguishing media                          | Carbon dioxide (CO2) Dry powder                                                                                                                                                                                                                                                                               |
| Unsuitable extinguishing media                        | Water Foam                                                                                                                                                                                                                                                                                                    |
| Special hazards arising from the substance or mixture | Carbon oxides Sodium oxides Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors. May not get in touch with: Water Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures. |
| Further information                                   | Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.                                                                                         |
| Hazardous combustion products                         | Fire may cause the evolution of Sulphur oxides, nitrogen oxides.                                                                                                                                                                                                                                              |
| Advice for firefighters                               | Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.                                                                                                                                                 |
| Protective Equipment                                  | Use personal protective equipment.                                                                                                                                                                                                                                                                            |
| Specific Hazards Arising from the Chemical            | Oxides of phosphorus Sodium oxides Not combustible. Fire may cause evolution of: Oxides of phosphorus Ambient fire may liberate hazardous vapours.                                                                                                                                                            |

## 6. Accidental Release Measures

|                                                                     |                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.                                               |
| Spillage                                                            | Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition sources. Call for assistance on disposal. |
| Enviromental Precaution                                             | Do not let product enter drains. Risk of explosion.                                                                                                                                                                                                                                                                                     |
| Methods and materials for containment and cleaning                  | Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.                                                                                                      |

## 7. Handling and Storage

|                                                 |                                                                                                                                                                   |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion | Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.                                           |
| Incompatible materials                          | Keep away from alkalis, strong oxidizing agents and metals. Provide containment walls of adequate capacity to hold any accidental spills.                         |
| Hygiene measures                                | Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.    |
| Precautions for safe handling                   | Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Keep workplace dry. Do not allow product to come into contact with water. |

|                                        |                                                                                                                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage conditions                     | No metal containers. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons. Never allow product to get in contact with water during storage. |
| Storage class                          | Storage class (TRGS 510): 3: Flammable liquids                                                                                                                                                                                                                                        |
| Specific end use(s)                    | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated                                                                                                                                                                                                    |
| Advice on general occupational hygiene | Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.                                                                                                                                                             |
| Requirements for storage               | Keep in cool and store under shade.                                                                                                                                                                                                                                                   |

## 8. Exposure controls and personal protection

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure controls                 | Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.                                                                                                                                                                                                                                                                                                                                                            |
| Control parameters                | Contains no components with established occupational exposure limits.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Engineering Control               | A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.                                                                                                                                                                                                                                                                                                                                                                                                         |
| Eye/face protection               | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles                                                                                                                                                                                                                                                                                                                                                           |
| Body Protection                   | Flame retardant antistatic protective clothing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Skin protection                   | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Respiratory protection            | Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. |
| Other Protection Measure          | Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Control of environmental exposure | Do not let product enter drains. Risk of explosion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 9. Physical and chemical properties

|                                              |                     |
|----------------------------------------------|---------------------|
| Physical state                               | Liquid              |
| Colour                                       | No data available   |
| Odour                                        | No data available   |
| Odor Threshold                               | No data available   |
| pH                                           | No data available   |
| Melting Point                                | No data available   |
| Boiling Point                                | 87 °C               |
| Flash Point                                  | 15,55 °C            |
| Evaporation Rate                             | Not Applicable      |
| Flammability (solid, gas)                    | No data available   |
| Explosive limits                             | No Data Available   |
| Upper/lower flammability or explosive limits | No data available   |
| Autoignition temperature                     | No data available   |
| Decomposition temperature                    | No data available   |
| Vapour pressure                              | 130 hPa at 25 °C    |
| Density                                      | 0,945 g/mL at 25 °C |
| Relative Density                             | No data available   |
| Relative vapor density                       | No data available   |
| Freezing point                               | No data available   |
| Viscosity dynamic                            | No data available   |
| Partition coefficient                        | No data available   |
| Explosive properties                         | No data available   |

|                          |                           |
|--------------------------|---------------------------|
| Solubility               | No data available         |
| Ignition temperature     | No information available. |
| Particle characteristics | No data available         |

## 10. Stability and reactivity

|                                    |                                             |
|------------------------------------|---------------------------------------------|
| Reactivity                         | Vapors may form explosive mixture with air. |
| Stability                          | Sensitive to moisture                       |
| Possibility of hazardous reactions | No data available                           |
| Conditions to avoid                | Warming. Moisture.                          |
| Incompatible materials             | Metals                                      |
| Hazardous decomposition products   | No data available                           |

## 11. Toxicological information

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                                   | Acute toxicity estimate Oral - 133,33 mg/kg (Calculation method) Remarks: No data available Oral: No data available<br>Acute toxicity estimate Oral - 130,88 mg/kg (Calculation method) Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Acute toxicity estimate Inhalation - 4 h - 4,13 mg/l - vapor(Calculation method) Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract Acute toxicity estimate Dermal - 400,13 mg/kg (Calculation method)                                                                                                                    |
| Skin corrosion/irritation                        | Remarks: Mixture causes severe burns. Remarks: Mixture causes burns.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Serious eye damage/eye irritation                | Remarks: Mixture causes serious eye damage. Risk of blindness!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Respiratory or skin sensitization                | In vivo assay - Mouse Result: Does not cause skin sensitization. Remarks: (ECHA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Toxic Effects on Human                           | May cause damage to the following organs: upper respiratory tract. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Carcinogenicity                                  | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Germ cell mutagenicity                           | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reproductive toxicity                            | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Specific target organ toxicity - single exposure | Mixture causes damage to organs. - Eyes, Central nervous system Mixture causes damage to organs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Special Remarks on other Toxi Effects on Humans  | Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Eyes: Causes eye irritation. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May cause chemical pneumonitis and pulmonary edema, inflammation, edema of bronchi and larynx. Chronic Potential Health Effects: Repeated or prolonged skin exposure may cause allergic reactions in sensitive individuals. Repeated or prolonged exposure by inhalation may affect respiration and metabolism. |
| Endocrine disrupting properties                  | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                                                                               |

## 12. Ecological information

|                                                     |                                                                                                                                                            |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bioaccumulative potential                           | No data available                                                                                                                                          |
| Persistence and degradability                       | Biodegradability aerobic - Exposure time 28 d Result: 97 - 99 % - Readily biodegradable. (OECD Test Guideline 301B) Ratio BOD/ThBOD > 90 %                 |
| Toxicity to fish                                    | Flow-through test LC50 - Lepomis macrochirus (Bluegill) -15.400 mg/l - 96 h (US-EPA) Remarks: Methanol                                                     |
| Toxicity to daphnia and other aquatic invertebrates | Static test EC50 - Daphnia magna (Water flea) - > 10.000 mg/l - 48 h (DIN 38412) Remarks: Methanol EC5 - E.sulcatum - > 10.000 mg/l - 72 h Remarks: (Lit.) |
| Toxicity to algae                                   | Static test ErC50 - Pseudokirchneriella subcapitata - ca. 22.000 mg/l - 96 h (OECD Test Guideline 201) Remarks: Methanol                                   |
| Toxicity to bacteria                                | Static test IC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209) Remarks: Methanol                                                       |

|                                    |                                                                                                                                                                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mobility in soil                   | No Information available                                                                                                                                                                                                                                    |
| Results of PBT and vPvB assessment | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.                                                          |
| Endocrine disrupting properties    | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| Other adverse effects              | No data available                                                                                                                                                                                                                                           |

### 13. Disposal considerations

|                        |                                                                                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal methods       | The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. |
| Contaminated packaging | Dispose of as above.                                                                                                                                                                                                                                     |
| Waste treatment Method | No data available                                                                                                                                                                                                                                        |

### 14. Transport information

|                            |                                   |                                 |                                |
|----------------------------|-----------------------------------|---------------------------------|--------------------------------|
| UN number                  | ADR/RID: 1289                     | IMDG:1289                       | IATA:1289                      |
| UN proper shipping name    | ADR/RID:Sodium methylate solution | IMDG: Sodium methylate solution | IATA:Sodium methylate solution |
| Transport hazard class(es) | ADR/RID: 3 (8)                    | IMDG:3 (8)                      | IATA: 3 (8)                    |
| Packaging group            | ADR/RID: II                       | IMDG: II                        | IATA: II                       |
| Environmental hazards      | ADR/RID: NO                       | IMDG: NO                        | IATA: NO                       |
| Further information        | No data available                 |                                 |                                |

### 15. Regulatory information

|                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inventory status                                                                               | Components are on the following inventories: Polymaleic acid: - US TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Philippine PICCS and Chinese Xi irritant R 36/38 Irritant to eyes & skin R 41 Risk of serious damage to eyes S24/25 Avoid contact with skin and eyes S26/28 In case of contact eyes & skin, rinse with plenty water and seek medical advice Section 312/313: Not listed. Not listed under California proposition 65. |
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.                                                                                                                                                                                                                                                                                                                                                |
| Authorisations and/or restrictions on use                                                      | REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Methanol                                                                                                                                                                                                                                                                                           |
| National legislation                                                                           | Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : ACUTE TOXIC : OTHER HAZARDS : FLAMMABLE LIQUIDS : Methanol                                                                                                                                                                                                                            |
| Other regulations                                                                              | Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.                                                                                                                                                                                                                                 |
| Chemical Safety Assessment                                                                     | For this product a chemical safety assessment was not carried out                                                                                                                                                                                                                                                                                                                                                                               |

### 16. Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

Other  
Information

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