Material Safety Data Sheet

Sodium Meta Silicate (RXSOL-19-1521-025)

1. Product and Company Identifaction

Product Name	Sodium Meta Silicate
Part Number	RXSOL-19-1521-025
Alternative Name	Disodium metasilicate, soluble glass, sodium sesquisilicate
Chemical Formula	Na2SiO3

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Number	Weight %
Sodium Metasilicate	6834-92-0		100%

3. Hazards Identification

Regulatory status	This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

4. First Aid Measures

Inhalation	Move victim to fresh air. Seek medical attention
Skin Contact / Absorption	Remove residues with water. Change contaminated clothing. In case of skin reactions, consult a physician
Eye Contact	With eyelids open, wash out eyes for several minutes under flowing water. In case of troubles or persistent symptoms, consult an opthalmologist.
swallowing	Rinse mouth and drink large quantities of water. If you feel unwell, seek medical advice.
Most important symptoms/effects, acute and delayed	no data available
Information to physician	Treat symptomatically.

5. Fire-fighting Measures

Suitable Extinguishing Media	Use appropriate media for surrounding fire (water, chemical foam, dry chemical, or carbon dioxide).
Unsuitable Extinguishing Media	Not Available
Specific Hazards Arising From the Chemical	Silicic acid will form if product comes in contact with water at high temperatures
Special Protective Equipment and Precautions for Fire-Fighters	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
Further Information	Not Available

6. Accidental Release Measures

Personal Precautions/Protective Equipment / Emergency Procedures	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue
Environmental Precautions	Prevent entry into sewers, basements or confined areas; dike if needed.
Methods and Materials for Containment and Cleaning Up	Avoid producing air-born dust. Sweep or vacuum material into a sealed, labeled, chemically impervious container. Wash down area with excess of water.

7. Handling and Storage

Precautions for Safe Handling	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure
Conditions for Safe Storage	Keep in tightly closed containers. Store in a cool, dry, ventilated area away from heat, moisture and incompatibles
Incompatibilities -	Can generate flammable hydrogen gas when in contact with aluminum, zinc or tin. May corrode aluminum, zinc, and tin. Sodium metasilicate can be precipitated by acids alkaline earth, and heavy metal ions

8. Exposure controls and personal protection

Exposure Limit (S)

Component	Regulation	Type of Listing	Value
Sodium metasilicate	Not Available		

Engineering Control(s) Ventilation Requirements	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
Other	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.
Protective Equipment	Eye/face Protection: Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.
Hand Protection	Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
Skin and Body Protection	Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.
Respiratory Protection	A half-face dust/mist respirator should be worn where dust or mist is present. Wear a fullface positive-pressure, air supplied respirator in emergency situations or where exposure levels are unknown.
Thermal Hazards	Not Available

9. Physical and chemical properties

Physical State	Solid powder
Colour	White
Odour	Odourless
Odor Threshold	Not Applicable
pH	12.7 (1% solution)
Melting Point/Freezing Point	1089°C
Initial Boiling Point and Boiling Range	>1200°C
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability	Non-Flammable
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20oC)	Not Applicable
Vapour Density (Air=1)	Not Applicable
Relative Density	Not Applicable
Solubility(ies)	Completely soluble in water. Decomposed by ethanol.
Partition Coefficient: noctanol/water	Not Availble
Auto-ignition Temperature	Not Availble
Decomposition Temperature	Not Availble
Viscosity	Not Availble
Explosive Properties	Not Availble
Specific Gravity (Water=1)	2.61
% Volatiles by Volume	Not Availble
Formula	Na2SiO3
Molecular Weight	122.062 g/mol

10. Stability and reactivity

Reactivity	Not Available
Stability	Stable under normal conditions
Possibility of Hazardous Reaction	Polymerization Will not occur.
Conditions to Avoid	Not Available
Incompatible Materials	Can generate flammable hydrogen gas when in contact with aluminum, zinc or tin. May corrode aluminum, zinc, and tin. Sodium metasilicate can be precipitated by acids alkaline earth, and heavy metal ions.
Hazardous Decomposition Products	Silicic acid will form if product comes in contact with water at high temperatures.

11. Toxicological information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Metasilicate	1280 mg/kg (rat)	Not Available	Not Available

Chronic Toxicity – Carcinogenicity Component

Skin Corrosion/Irritation	May cause redness, blistering and severe burns.

Ingestion	Corrosive product. Will cause diarrhea, abdominal cramps, mouth and tongue pain, sore throat, nausea, stomach ache. May lead to death if ingested
Inhalation	May irritate nose, throat, and lungs and may cause respiratory tract irritation.
Serious Eye Damage/Irritation	Causes redness, pain, tissue burns and impaired vision.
Respiratory or Skin Sensitization	No sensitizing effects known
Germ Cell Mutagenicity	Not Available
Reproductive Toxicity	Not Available
STOT-Single Exposure	May irritate nose, throat, and lungs and may cause respiratory tract irritation
STOT-Repeated Exposure	Not Available
Aspiration Hazard	May cause pulmonary edema
Synergistic Materials	Not Available

12. Ecological information

Ecotoxicity

Biodegradability	Final product of degradation is silica sand
Bioaccumulation	Low potential for bioaccumulation
Mobility	Highly mobile in soils.

13. Disposal considerations

Waste From Residues/Unused Products	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Contaminated Packaging	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

14. Transport information

UN Number	UN3253	
UN Proper Shipping Name	DISODIUM TRIOXOSILICATE	
Transport Hazard Class(es)	8	
Packaging Group	III	
Environmental Hazards	Not listed as a marine pollutant under C anadian TDG Regulations, schedule III.	
Special Precautions	Not Available	
Transport in Bulk	Not Available	
Additional Information	Packing Group	Limited Quantity Index
	II	1 L
	III	5 L
TDG Other	Secure containers (full and/or empty) with suitable hold down devises during shipment and ensure all caps, valves, or closures are secured in the closed position.	

TDG PRODUCT CLASSIFICATION	This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

15. Regulatory information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

16. Other information

Preparation Date 2017 July 17

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

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References:

1) CHEMINFO
2) eChemPortal
3) TOXNET
4) Transportation of Dangerous Goods Canada
5) HSDB 6) ECHA

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