

## 1. Product and Company Identification

www.rxmarine.com

Product Name Sodium Bisulphite Powder

Part Number RXSOL-19-1556-020

### Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

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## 2. Composition / Information on ingredients

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Component	CAS No.	Weight %
Sodium bisulfite	7631-90-5	>95

## 3. Hazards Identification

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Classification of the substance or mixture:

Acute oral toxicity Category 4.

Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

Signal word:

Warning.

Hazard statement(s):

Harmful if swallowed.

May cause respiratory irritation.

Precautionary Statements:

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth.

Storage Store in a well-ventilated place. Keep container tightly closed Store locked up.

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise Classified (HNOC)

Contact with acids liberates toxic gas.

## 4. First Aid Measures

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General notes:	If symptoms persist, call a physician.
Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin contact:	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects, both acute and delayed:	None reasonably foreseeable.
Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

## 5. Fire-fighting Measures

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Extinguishing media:	Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam.
Special hazards arising from the substance or mixture:	Keep product and empty container away from heat and sources of ignition.
Hazardous Combustion Products:	Sulfur oxides. Sodium oxides.
Advice for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental Release Measures

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Personal Precautions:	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.
Environmental Precautions:	Should not be released into the environment.
Methods and material for containment and cleaning up:	Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

## 7. Handling and Storage

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Precautions for Safe Handling:	Wear personal protective equipment/face protection. Avoid dust formation. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.
Conditions for safe storage, including any incompatibilities:	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from acids. Incompatible Materials. Acids. Metals.

## 8. Exposure controls and personal protection

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Engineering Measures:	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face Protection:	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 EN 166.
Skin and body protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation

Hygiene Measures:	or other symptoms are experienced. Handle in accordance with good industrial hygiene and safety practice.
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Lab coat, Dust respirator. Be sure to use an approved / certified respirator or equivalent Gloves.
Personal Protection in case of a Large Spill"	Splash goggles. Full suit. Dust respirator. Boots Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA 5 (mg/m3) from OSHA (PEL) [united states] Inhalation  TWA 5 (mg/m3) from ACGIH (TLV) [united states] Inhalation  TWA 5 (mg/m3) from [united states] Inhalation  TWA 5 (mg/m3) from [United Kingdom(UK)] Inhalation  TWA 5 (mg/m3) from [Canada] inhalation Consult local authorities for acceptable exposure limits.

## 9. Physical and chemical properties

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State:	Powder.
Color:	White
Odour:	Rotten-egg like
Melting Point/Range	150 °C / 302 °F
pH Value:	4-5 25% aq. sol
Specific Gravity:	1.480
Water Solubility:	300 g/l
Physical state and appearance	Solid.
Odor	Sulfurous. (Slight.)
Taste	Disagreeable.
Molecular Weight	104.07 g/mole
Color	White. Off-white.
pH (1% soln/water)	Not available
Boiling Point	Not available.
Melting Point	Decomposes.
Critical Temperature	Not available.
Specific Gravity	1.48 (Water = 1)
Vapor Pressure	Not applicable.
Vapor Density	Not available.
Volatility	Not available.
Odor Threshold	Not available.
Water/Oil Dist. Coeff	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water.
Solubility	Easily soluble in hot water.  Soluble in cold water.  Soluble in 3.5 parts cold water.

Soluble in 2 parts boiling water.

Soluble in 70 parts alcohol

Insoluble in liquid chloride, ammonia.

## 10. Stability and reactivity

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Reactivity:

Yes

Chemical stability:

Moisture sensitive.

Conditions to avoid:

Avoid dust formation. Excess heat. Exposure to air. Incompatible products. Exposure to moist air or water. Temperatures above 150°C. acids.

Incompatible materials:

Acids, Metals.

Hazardous Decomposition products:

Sulfur oxides, Sodium oxides.

Stability

The product is stable.

Instability Temperature

Not available.

Conditions of Instability

Incompatible materials

Incompatibility with various substances

Reactive with oxidizing agents, acids.

Corrosivity

Non - corrosive in presence of glass.

Special Remarks on Reactivity

Slowly oxidized to sulfate on exposure to air.

Special Remarks on Corrosivity

Not available.

Polymerization

Will not occur.

## 11. Toxicological information

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Acute toxicity:

LD50 = 1310 mg/kg ( Rat )

Respiratory or skin sensitisation:

Not classified

Carcinogenicity:

Not classified

Aspiration hazard:

Shall not be classified as presenting an aspiration hazard.

Reproductive hazards:

Not classified

Germ cell mutagenicity:

Not classified

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/eye irritation:

Causes serious eye irritation.

Routes of Entry

Inhalation, Ingestion.

Toxicity to Animals

Acute oral toxicity (LD50): 2000 mg/kg [Rat].

Chronic Effects on Humans

CARCINOGENIC EFFECTS :3 (Not classifiable for human.) by IARC.

Other Toxic Effects on Humans

MUTAGENIC EFFECTS :Mutagenic for bacteria and/or yeast. May cause damage to the following organs: lungs, skin.

Special Remarks on Toxicity to Animals

Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Chronic Effects on Humans

Not available

May affect genetic material (mutagenic).

Special Remarks on other Toxic Effects on Humans

May cause cancer based on animal test data. No human data found.

Acute Potential Health Effects:

Skin Causes skin irritation.

Eyes. Causes eye irritation.

Inhalation :Can cause respiratory tract irritation with cough, Wheezing,

and Shortness of breath. It can produce anaphylaxis or other hypersensitivity reactions in some sensitized individuals.

Ingestion :May be harmful if swallowed. It may cause nausea, vomiting ,diarrhea, abdominal pain, gastric. Extremely large amounts may affect behavior / central nervous system and may produce central nervous system stimulation,irritation,seizures and may also cause, cyanosis, respiratory depression, apnea,circulatory disturbances, hypotension and cardlovascular collapse.May cause asthmatic reaction in sensitized individuals.

Chronic Potential Health Effects:

Inhalation : Prolonged or repeated inhalation may cause bronchitis to develop with cough, phlegm, and/or shortness of breath. It can cause an asthma-like allergy or other hypersensitivity reactions such as anaphylaxis, angloedema, bronchoconstriction, flushing, diaphoresis, urtiacaria, tachycardia, and hypotension in sensitized individuals. Futures exposures may cause shortness of breath. Wheezing, cough, and/or chest tightness.

Skin:Protonged or repeated skin contact can cause dermatitis.

Ingestion : Prolonged or repeated ingestion may affect the liver, and blood

## 12. Ecological information

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Aquatic toxicity:

Results of PBT and vPvB assessment:

Biodegradability:

Bio  $\infty$  accumulation:

Mobility in soil:

Ecotoxicity

BOD5 and COD

Products of Biodegradation

Toxicity of the Products of Biodegradation

Special Remarks on the Products of Biodegradation

EC50: = 119 mg/L, 48h(Daphnia magna)

This product does not contain any PBT or vPvB substances.

Soluble in water Persistence is unlikely based on information available.

No information available.

Will likely be mobile in the environment due to its water solubility

Not available.

Not available.

Possibly hazardous short term degradation product are not likely.

However, long term degradation products may arise.

The products of degradation are less toxic than the product itself.

Not available.

## 13. Disposal considerations

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Disposal methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, andnational hazardous waste regulations to ensure complete and accurate classification

## 14. Transport information

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UN Number:

Not applicable.

Proper Shipping Name

Not applicable.

Hazard Class

Not applicable.

Packing Group

Not applicable.

DOT Classification

Not a DOT controlled material (United States).

Identification

Not applicable.

## 15. Regulatory information

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National legislation:	Hazardous Substances Act 15 of 1973 and Regulations. Occupational Health and Safety Act 85 of 1993 (Hazardous Chemical Substances Regulations).
International Legislation:	IATA Dangerous Goods Regulation (DGR) 59th Edition 2018. IMDG Code, International Maritime Dangerous Goods Code, 2008 Edition, Volume 1 and 2.
Federal and state Regulations:	
Connecticut hazardous material survey : Sodium bisulfite	
Illinois toxic substances disclosure to employee act: Sodium bisulfite	
Illinois chemical safety act: Sodium bisulfite	
New York release reporting list: Sodium bisulfite	
Pennsylvania RTK : Sodium bisulfite	
Minnesota :Sodium bisulfite	
Massachusetts RTK : Sodium bisulfite	
Massachusetts spill list : Sodium bisulfite	
New Jersey : Sodium bisulfite	
New Jersey spill list : Sodium bisulfite	
Louisiana spill reporting : Sodium bisulfite	
California Director's List of Hazardous Substances: Sodium bisulfite	
TSCA 8(b) inventory Sodium bisulfite	
TSCA 8(a) PAIR : Sodium bisulfite	
TSCA 8(d) H and S data reporting : Sodium bisulfite: Effective date :1/26/94; Sunset date : 6/30/98	
CERCLA : Hazardous substances : Sodium bisulfite : 5000 lbs. (2268 kg)	
Other Regulations:	
OSHA Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
EINECS : This product is on the European Inventory of Existing Commercial Chemical Substances.	
Other Classifications:	
WHMIS (Canada): CLASS D-2B: Material causing other toxic effects (TOXIC)	
DSCL (EEC):	
R22- Harmful if swallowed.	
R31- Contact with acids liberates toxic gas.	
S25- Avoid contact with eyes.	

S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard :2

Fire Hazard :0

Reactivity :0

Personal Protection :E

National Fire Protection Association (U.S.A.):

Health :2

Flammability :0

Reactivity :0

Specific hazard :

Protective Equipment:

Gloves

Lab coat

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

## 16. Other information

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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 rxmarine.com 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 RXMARINE has been advised of the possibility of such damages.

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Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Splash goggles. Lab coat, Dust respirator. Be sure to use an approved /

Personal Protection in case of a Large Spill"

Exposure Limits

certified respirator or equivalent Gloves.  
Splash goggles. Full suit. Dust respirator. Boots Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.  
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TWA 5 (mg/m3) from [United Kingdom(UK)] Inhalation  
  
TWA 5 (mg/m3) from [Canada] inhalation Consult local authorities for acceptable exposure limits.