



Water Guard Inc. (WGI)
SAFETY DATA SHEET

Effective Date: May 22, 2015
Revision Date:

I. Product and Company Information			
Product Name(s):	Sodium Bisulfite Solution (15% - 42%)	Synonym:	SBS
Chemical Name:	Sodium Bisulfite Solution	CAS Number:	7631-90-5
Manufacturer's Name: Water Guard Inc. P.O. Box 2226 Wilson, N.C. 27894 Customer Service: 1-800-872-7665 Web Site www.waterguardinc.com		Emergency Contacts: Afterhours (PERS)1-800-633-8253	

II. Hazard Identification	
OSHA HCS / GHS Classification(s):	Hazard Statement(s):
Acute Toxicity Oral, Category 4	Harmful if swallowed.
Skin Irritation, Category 3	Causes mild skin irritation.
Eye Irritation, Category 2A	Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure, Category 3	May cause respiratory irritation.
Corrosive to Metals, Category 1	May be corrosive to metals.
Signal Word:	Precautionary Statement(s):
Warning	Prevention:
Symbol(s): 	Wash affected body parts after handling.
	Do not eat, drink or smoke when using this product.
	Avoid breathing vapors.
	Wear eye / face protection.
	Use in well ventilated areas.
	Keep in original container.
	Response:
	IF SWALLOWED: Rinse mouth and call a doctor if you feel unwell.
	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
If eye irritation persists: Get medical attention.	
If skin irritation occurs: Get medical attention.	
For specific treatment: See First Aid section IV.	

III. Composition / Information on Ingredients		
Chemical Name:	CAS Reg #'s	%
Sodium Bisulfite(NaHSO ₃)	7631-90-5	15-42
Sodium Sulfite (Na ₂ SO ₃)	7757-83-7	<1
Sodium Sulfate (Na ₂ SO ₄)	7757-82-6	<4
Water	7732-18-5	Balance

IV. First Aid Measures

Eyes:	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Remove any contact lenses. Seek medical attention, if you feel unwell.
Dermal / Skin:	Remove contaminated clothing and wash exposed area thoroughly with soap and water. Seek medical attention, if you feel unwell.
Inhalation:	Move to fresh air immediately. If breathing is difficult, give oxygen. Seek medical attention, if you feel unwell.
Ingestion:	If swallowed, DO NOT induce vomiting. Rinse mouth, Seek medical attention, if you feel unwell.

V. Fire Fighting Measures

NFPA Hazard Rating:	Health (Blue)	Fire (Red)	Reactivity (Yellow)	Special Instructions (White)
	2	0	1	None
NFPA Hazard Classification: 0 = Least 1=Slight 2= Moderate 3= High 4= Extreme				
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.			
Special Firefighting Procedure:	Wear NIOSH-approved self-contained breathing apparatus (SCBA). Use water spray to keep containers cool and to knock down fumes. CAUTION: when subject to excess heat, product releases additional sulfur dioxide gas.			

VI. Accidental Release Measures

Precaution if Spilled or Released:	Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems.
Neutralizing Chemicals:	Neutralize with appropriate alkali such as sodium hydroxide, or soda ash to neutral pH. Avoid conditions where the pH of spilled material is maintained at lower than pH 6, since sulfur dioxide can be released at ambient temperatures below this pH.

VII. Handling and Storage

Handling:	Handle all chemicals with respect. Keep separated from incompatible substances. Handle only with equipment, materials and supplies specified by their manufacturer as being compatible and appropriate for use with this product.
Storage:	Store at appropriate temperature to protect from freezing or crystallization. Consult the appropriate WGI Product Bulletin for temperature recommendations. Do not store this material near food, animal feed or drinking water. Store in well ventilated area. Store away from excessive heat (e.g. steam pipes, radiators), and from reactive materials. Keep container tightly closed when not in use.

VIII. Exposure Control / Personal Protective Equipment

Component Workplace Control Parameters:				
Components:	CAS-No.	Value	Parameters	Basis
Sodium Bisulfite	7631-90-5	TWA	5 mg/m ³	solid sodium bisulfite (metabisulfite)
Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.			
General Hygiene:	Practice good personal hygiene after using this material, especially before eating, drinking, smoking or using the toilet			
Personal Protection Equipment:				
Eye:	Use chemical splash goggles and face shield. Eye protection worn must be compatible with respiratory protection system employed.			
Skin:	Chemically resistant gloves should be worn whenever this material is handled. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.			

Respiratory:	None required under normal conditions. When conditions warrant a respirator, use NIOSH approved respirator and cartridge for particulates and Sulfur Dioxide.			
Other Protective Items:	Where splash is possible, full chemically resistant protective clothing and boots are required. Ensure that eyewash stations and safety showers are proximal to the work-station location.			
HMIS Classification:	Health (Blue)	Flammability (Red)	Physical Hazard (Yellow)	PPE (White)
	2	0	1	See Above
Hazard Classification: 0 = Minimal 1=Slight 2= Moderate 3= Serious 4= Severe				

IX. Physical and Chemical Properties

Physical State:	Liquid	pH:	3.5 to 5.0
Appearance:	Clear to yellow	Molecular Weight:	104.1 for NaHSO ₃
Odor:	Pungent odor	Odor Threshold:	No Data Available
Specific Gravity:(H₂O=1)	1.13 to 1.38 @ 77°F/25°C	Weight per gallon (lbs)	9.4 to 11.3 @ 77°F/25°C
Vapor Density: (Air=1)	Similar to water	Vapor Pressure:	≤ 32 mm Hg total (12 mm Hg SO ₂) @ 77°F/25°C
Boiling Point:	217°F /103°C Estimated	Freezing/Melting Point:	15.8°F/ -9°C
Lower Explosive Limit	Not Applicable	Upper Explosive Limit	Not Applicable
Flash Point	Not Applicable	Autoignition Temp.	Not Applicable
Solubility in water:	Dilatable	:	
Other:			

X. Stability and Reactivity Data

Chemical Stability:	Product is stable under normal or expected use.
Conditions To Avoid:	Avoid exposure to excessive heat.
Incompatible Materials:	Avoid contact with: acids and oxidizing agents.
Hazardous Products of Decomposition:	Thermal decomposition may yield the following: sulfur dioxide – toxic fumes.

XI. Toxicological Information

Routes of Entry:	<input checked="" type="checkbox"/> Eyes <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Inhalation					
Sign and symptoms of Exposure:	May cause irritation to eyes, skin and respiratory passages.					
Eye Contact:	Causes serious eye irritation.					
Ingestion:	May be harmful if swallowed.					
Skin Contact:	Causes mild skin irritation.					
Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.					
Carcinogenicity:	NPT	Not Listed	IARC	Not Listed	OSHA	Not Regulated
Ingredient Name:	Species		Test		Route	Results
Sodium Bisulfite Solution	Rat		2000 mg/kg		oral	LD50
Comments:	Sulfite sensitive individuals may experience an allergic reaction.					

XII. Ecological Information

Ingredient Name:	Species	Test	Period	Results
Sodium Bisulfite Solution	Mosquitofish	240ppm	96 hours	LC50
Comments:				

XIII. Disposal Considerations

Waste Disposal:	Always dispose of material in accordance with local, state, and federal regulations.
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XIV. Transportation Information

Proper Shipping Name:	Bisulfites, aqueous solutions, n.o.s. (contains Sodium Bisulfite)		
DOT Classification:	8		
Identification Number:	UN2693	Packing Group:	III
		Other Labels:	Corrosive

XV. Regulatory Information

Inventory Status:		US Regulations:	
U. S. TSCA	Yes	SARA 302 TPQ	Not Listed
Europe EINECS	Yes	SARA 304 RQ	Not Listed
Canadian DSL	Yes	SARA 313 List	Not Listed
Japan ENCS	Yes	CERCLA (RQ)	5,000 lbs on dry weight basis for sodium bisulfite.
Korean KECI	Yes	RCRA 261.33	Not Listed
Philippines PICCS	Yes	CAA-112-r	Not Listed
Australian AICS	Yes		
		SARA 311/312	<input checked="" type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Fire <input type="checkbox"/> Release of Pressure <input type="checkbox"/> Reactive
International Regulations:		Other Regulations:	
Canada WHIMS	D-2B	Material causing other toxic effects	California PROP 65 Not Listed
Canada WHIMS	E	Corrosive	FDA GRAS 21 CFR 182.3739
EINECS	231-548-0		

XVI. Other Information

NSF Certification:	Packaged from certified material. Contact Water Guard customer service.
Other:	
Revision Notes:	_____
MSDS Replacements	All

IMPORTANT

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