



NORTH Metal and Chemical Co.

1. Company Identification and Product Hazard Overview:

Product Name	: Sodium Metabisulfite
Synonyms	: Anhydrous Sodium Bisulfite
Recommended Use	: Water treatment, textile manufacture, photographic chemicals, and other chemical processes.
Manufactured for	: NORTH Metal and Chemical Company P. O. Box 1985 York, PA USA 17403 Tel: 717-845-8648 Email: north@northchem.com
	609 E. King St. York, PA USA 17403 Website: www.northchem.com

In Case of Emergency: Call CHEMTREC (24H): 1-800-424-9300

2. Hazard Identification:

GHS Classification:

Acute Toxicity, Oral (Category 4)

Serious Eye Damage / Eye Irritation (Category 1)

Signal Word: Danger

Pictograms: Corrosive



Hazard Statements:

- H302** : Harmful if swallowed
H318 : Causes serious eye damage

Precautionary Statements - Prevention:

- P264 + P265** : Wash hands thoroughly after handling. Do not touch eyes
P270 : Do not eat, drink, or smoke when using this product
P280 : Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Precautionary Statements - Response:

- P301 + P317** : IF SWALLOWED: Get medical help
P330 : Rinse mouth
P305 + P354 + P338 : IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337 + P313 : If eye irritation persists: Get medical advice/attention
P317 : Get emergency medical help

Precautionary Statements - Storage: None required.

Precautionary Statements - Disposal:

- P501** : Dispose of contents/container in accordance with local/state/federal regulations.

Supplemental Information: Store in a cool, dry, well ventilated area away from water, ice, acids, and oxidizing agents. Releases sulfur dioxide gas slowly at ambient temperatures.

Hazards not otherwise classified (HNOC): None known.

3. Composition/Information on Ingredient:

Chemical Name : Sodium Metabisulfite

Substance:	CAS Number:	EC	Compo. (%)
Sodium Metabisulfite	7681-57-4		>97%

4. First Aid Measures:

SKIN : Wash skin with plenty of soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation persists.

EYES : Flush eyes immediately with water for at least 15 minutes. Remove contact lenses if present after the first 5 minutes if you can do so easily and continue flushing. Get immediate medical attention.

INHALATION : Remove to fresh air. Get immediate medical attention if signs of suffocation, irritation, difficulty breathing, or other symptoms develop.

INGESTION : Rinse mouth with water and give 1 glass of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms develop.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

:May irritate the skin. May cause irritation and/or burns to the eyes. Harmful if swallowed or inhaled. May cause severe and possibly fatal allergic reactions if inhaled or swallowed by some asthmatics and other 'sulfite-sensitive' individuals. Reacts with acids to form toxic and irritating sulfur dioxide gas. Releases sulfur dioxide if heated above 150°C (302°F).

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NEEDED

:Immediate medical attention is required for eye contact and allergic respiratory reaction. Treat symptomatically. Note potential for anaphylactic shock with allergic individuals.

5. Fire Fighting Measures:

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA:

Material is not flammable. Use extinguishing media appropriate for material in surrounding fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Releases toxic and irritating sulfur dioxide at fire temperatures.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTING:

Wear NIOSH-approved self-contained breathing apparatus.

6. Accidental Release Measures:

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Provide ventilation to clear sulfur dioxide fumes which may be generated by contact with water. Wear appropriate personal protective equipment.

ENVIRONMENTAL PRECAUTIONS:

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Promptly sweep up material with minimum dusting and shovel into an empty container with a cover. Rinse spill area with plenty of water.

7. Handling and Storage:

PRECAUTIONS FOR SAFE HANDLING:

(See section 8 for recommended personal protective equipment.) Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not eat or drink in the work area. Use normal personal hygiene and housekeeping. Keep away from water, ice, acids, heat and oxidizing agents. For Food Grade product, see precautions in section 16 regarding on-board use in preserving shrimp and fish.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store in a cool, dry, well-ventilated area away from water, ice, acids, and oxidizing agents. Releases sulfur dioxide gas slowly at ambient temperatures.

8. Exposure Controls and Personal Protection:

EXPOSURE GUIDELINES:

Substance:	ACGIH TLV	OSHA PEL	Other Limit
Sodium Metabisulfite	5 mg/m3 TWA	None	None

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:

Sulfur dioxide: OSHA TWA = 5 ppm

ACGIH STEL = 0.25 ppm

APPROPRIATE ENGINEERING CONTROLS:

Local exhaust if dusty conditions exist or if there is a release of sulfur dioxide gas. Do not use in unventilated spaces, e.g., the holds of fishing boats, walk-in coolers or confined spaces.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

Skin Protection : For handling dry material, wear rubber gloves and full work clothing, including long-sleeved shirt and trousers. When handling solutions and there is prolonged or repeated contact, wear impervious gloves, clothing and boots.

Eye Protection : Wear chemical safety goggles

Respiratory Protection : Where required, use a NIOSH-approved respirator for dust, mist and/or sulfur dioxide gas, as conditions indicate. Some exposures may require a NIOSH approved self-contained breathing apparatus or supplied-air respirator. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice.

Additional Recommendations: Eyewash and safety shower are recommended.

9. Chemical and Physical Properties:

Appearance	: Fine, white granular material	Partition coefficient (n-octanol/water)	: Not determined
Odor	: Pungent sulfur dioxide odor	Auto Ignition Temp.	: Not applicable
Odor threshold	: Not determined	Molecular Weight	: 190.11 g/mol
pH	: 4.3 (1% solution)	Viscosity	: Not applicable
Melting Point	: Begins to rapidly decompose at 150°C		
Boiling Range	: Not applicable		
Flash Point	: None		
Evaporation Rate	: Not applicable		
Lower Explosive Limit	: Not applicable		
Upper Explosive Limit	: Not applicable		
Vapor Pressure	: Not applicable		
Vapor Density	: Not applicable		
Relative Density	: Not available		
Solubility in water	: 39% @ 16°C (by weight)		
Specific Gravity	: Not applicable		

10. Stability and Reactivity:

REACTIVITY:

Not normally reactive

CHEMICAL STABILITY:

Normally stable.

POSSIBILITY OF HAZARDOUS REACTIONS:

Reacts with acids to form toxic and irritating sulfur dioxide gas.

CONDITIONS TO AVOID:

Avoid elevated temperatures. Temperatures above 150°C (302°F) cause the rapid evolution of toxic and corrosive sulfur dioxide gas.

INCOMPATIBILITIES:

Oxidizers: may cause strong exothermic reactions. Acids, water and ice: releases sulfur dioxide gas which is toxic, corrosive, and potentially deadly. Water and/or ice speeds the production of sulfur dioxide gas.

HAZARDOUS DECOMPOSITION PRODUCTS:

Sulfur dioxide and sodium sulfide residue. Sodium sulfide is flammable, a dangerous fire risk, a strong irritant to skin and tissue, and is incompatible with acids

11. Toxicological Information:

POTENTIAL HEALTH HAZARDS

ACUTE EFFECTS OF EXPOSURE:

SKIN: Repeated or prolonged contact with dust may cause irritation. Contact with solutions will cause skin irritation and possibly burns.

EYES: Dust or mist may irritate or burn the eyes. Solutions will irritate or burn. Permanent eye injury is possible.

INHALATION: Inhalation of dust or mist can irritate the respiratory tract. May cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals. Possible signs and symptoms of allergic reactions include bronchoconstriction, sweating, flushing, hives, rapid heart rate, decreased blood pressure, and anaphylaxis. Contact with acids, water and/or ice, releases sulfur dioxide gas which may be harmful or deadly if inhaled.

INGESTION: May irritate the gastrointestinal tract. May cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals. Very large doses may cause violent colic, diarrhea, depression, and even death.

CHRONIC EFFECTS: None known.

Ingredients found on one of the three OSHA designated carcinogen lists are listed below.

Substance:	NTP Status	IARC Status	OSHA Limit
No ingredients listed in this section	-	-	-

NUMERICAL MEASURES OF TOXICITY:

Immediate (Acute) Effects:

Sodium metabisulfite – LD₅₀ (oral, rat) = 1540 mg/kg

11. Toxicological Information Continued:

Delayed (Subchronic and Chronic) Effects:

Sodium metabisulfite is not mutagenic in microbial systems or in rat bone marrow metaphase assay or dominant lethal test in rats. A 2 year feeding study in rats was negative for carcinogenicity. In a three generation feeding study in rats, no adverse effects on reproduction was observed.

Other Data:

None

12. Ecological Information:

ECOTOXICITY:

The following ecotoxicity data is available for Sodium metabisulfite:

Daphnia EC50 48h	74.9 mg/L
Fish LC50 96h	149.6 mg/L
Algae EC50 72h	36.8 mg/L
Daphnia NOEC	≥8.41 mg/L
Fish NOEC	50.0 mg/L
Algae NOEC	28 mg/L

PERSISTENCE AND DEGRADABILITY:

Chemical Oxygen Demand (COD) 168 mg/g

BIOACCUMULATIVE POTENTIAL:

No data available

MOBILITY IN SOIL:

No data available

OTHER ADVERSE EFFECTS:

No data available.

13. Disposal Considerations:

RCRA

Is the unused product a RCRA hazardous waste if discarded? No
If yes, the RCRA ID number is: Not applicable.

OTHER DISPOSAL CONSIDERATIONS:

Dispose of in accordance with applicable Federal, State and Local regulations. The information offered in section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. Transport Information:

US DOT HAZARD CLASS: Not regulated.
US DOT ID NUMBER: Not applicable.
PROPER SHIPPING NAME: Not applicable.

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

15. Regulatory Information:

TOXIC SUBSTANCES CONTROL ACT (TSCA)

TSCA Inventory Status : All components are listed on TSCA Inventory of Chemical Substances

Other TSCA Issues : None

SARA TITLE III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

Substance:	SARA/CERCLA RQ (lb)	SARA EHS TPQ (lb)
No ingredients listed in this section	-	-

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee. Many states have more stringent regulations. Report all spills in accordance with local, state and federal regulations.

SECTION 311 HAZARD CLASS: See OSHA Hazard Classification in Section 2.

SARA 313 TOXIC CHEMICALS: The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

Substance:	Comment
No ingredients listed in this section	-

STATE RIGHT-TO-KNOW: Not Listed

California Proposition 65:

This product does not contain any ingredients known to the State of California to cause cancer and/or reproductive harm.

Additional Regulatory Information:

None

Foreign Chemical Control Inventory Status:

Listed on Canadian DSL, Australian AICS, Phillipines PICCS, Chinese IECSC, Japanese MITI, Korean KECL, and EU EINECS.

16. Other Information:

OTHER INFORMATION:

Only NF grade is for use in drug formulation. Only Food Grade material is for use as a food additive.

On-board ship use of Food Grade material to preserve shrimp and fish:

NEVER apply dry material to shrimp or fish. **ALWAYS** prepare and use a solution in a well-ventilated area.

NEVER use below deck or in any confined space such as a hold or cooler. Injury or death may occur.

ALWAYS use on deck with plenty of ventilation. Follow mixing and use directions printed on bag

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