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THE POWER OF THREE<sup>3</sup>

**PHARMCO-AAPER**

AND COMMERCIAL ALCOHOLS

Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300

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**MATERIAL SAFETY DATA SHEETS**

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Manufacturer: PHARMCO-AAPER  
58 Vale Road  
Brookfield, Connecticut 06804, USA  
Phone (203) 740-3471  
Fax (203) 740-3481

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Phone (502) 633-0650  
Fax (502) 633-0685

Emergency Contact:  
CHEMTREC 1-800-424-9300

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**SODIUM METABISULFATE**

Synonyms: Sodium Pyrosulfite, Phrosulfurous Acid, Disodium Salt  
Molecular Weight: 190.11  
Chemical Formula: Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>

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**COMPOSITION/INFORMATION ON INGREDIENTS**

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**Components**

INGREDIENT	CAS NO	PERCENT	HAZARDOUS
SODIUM METABISULFITE	7681-57-4	100%	YES
SODIUM BISULFITE	7636-90-5	<0.001%	NO

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**HAZARDS IDENTIFICATION**

**EMERGENC OVERVIEW**

**WARNING:** Harmful if swallowed or inhaled. Causes irritation to the skin, eyes and respiratory tract. May cause allergic respiratory reaction. Reacts with acids and water releasing toxic sulfur dioxide gas.

**FIRST AID MEASURES**

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**INHALATION:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**INGESTION:**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**SKIN CONTACT:**

Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**EYE CONTACT:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**POTENTIAL HEALTH EFFECTS****INHALATION:**

Causes irritation to the respiratory tract. May include coughing, shortness of breath. May cause allergic reaction in sensitive individuals.

**INGESTION:**

May cause gastric irritation by the liberation of Sulfurous Acid. An asthmatic reaction may occur after ingestion. Large doses may result in nausea, vomiting, diarrhea, abdominal pains, circulatory disturbance and central nervous system depression. Estimated fatal dose is 10 GM.

**SKIN CONTACT:**

Causes irritation to skin. Symptoms include redness, itching, and pain.

**EYE CONTACT:**

Causes irritation, redness, and pain. Contact may cause irreversible eye damage. Symptoms may include stinging, tearing, redness, swelling, corneal damage and blindness.

**CHRONIC EXPOSURE:**

No information found.

**AGGRAVATION OF PRE-EXISTING CONDITIONS:**

Some individuals are said to be dangerously sensitive to minute amounts of sulfites in foods. Symptoms may include broncho constriction, shock, gastrointestinal disturbances, angio edema, flushing, and tingling sensations. Once allergy develops, future exposures can cause asthma attacks with shortness of breath, wheezing and cough.

Equipment as specified in section 8.

**SPILLS:**

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Cautiously spray residue with plenty of water, providing ventilation to clear sulfur dioxide fumes generated from water contact. US regulations (CERCLA) require reporting spills and releases to soil. Water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800-424-8802)

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**HANDLING AND STORAGE**

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Releases toxic sulfur dioxide gas when in contact with water, ice. Keep away from acids, water, ice, and oxidizing agents. Use only with appropriate protective equipment. Do not use in unventilated areas such as holds of finishing boats, walk in coolers or confined spaces. Containers of this material may be hazardous when empty since

they retain product residues (Dust), SOLIDS) ; Observe all warnings and precautions listed for the product.

#### **FIRE FIGHTING MEASURES**

##### **FIRE:**

Not considered to be a fire hazard.

##### **EXPLOSION:**

Not considered to be an explosion hazard.

##### **FIRE EXTINGUISHING MEDIA:**

Use any means suitable for extinguishing surrounding fire. Do not allow water runoff to enter sewers or waterways.

#### **SPECIAL INFORMATION**

In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

#### **ACCIDENTAL RELEASE MEASURES**

Ventilate area of leak or spill. Wear appropriate personal protective

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

##### **AIRBORNE EXPOSURE LIMITS:**

ACGIH threshold limit value (T<sub>VL</sub>)

5 MG/M<sup>3</sup> (TWA) For Sodium Bisulfite & for Sodium Metabisulfite, A4 Not classifiable as a human carcinogen.

##### **VENTILATION SYSTEM:**

A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "INDUSTRIAL VENTILATION, a manual of recommended practices", most recent edition, for details.

##### **PERSONAL RESPIRATORS (NIOSH APPROVED):**

If the exposure limit is exceeded, a half-face respirator with an acid gas cartridge may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an acid gas cartridge may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece.

**POSITIVE -PRESSURE, AIR-SUPPLIED RESPIRATOR: WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

##### **SKIN PROTECTION:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. (Neoprene, Polyvinyl Chlorides).

##### **EYE PROTECTION:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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**PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:**  
White to yellow white crystalline granules.

**BOILING POINT:**  
Not applicable

**ODOR:**  
Slight odor of Sulfur Dioxide

**MELTING POINT:**  
150C (302F)

**SOLUBILITY:**  
Very soluble in water, insoluble  
in alcohol.

**VAPOR DENSITY (AIR=1):**  
No information found.

**SPECIFIC GRAVITY:**  
1.48

**VAPOR PRESSURE (MM HG):**  
No information found

**PH:**  
Aqueous solution is acidic  
% volatiles by volume @ 21C (70F):

**EVAPORATION RATE (BUAC=1):**  
No information found

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**STABILITY AND REACTIVITY**

**STABILITY:**  
Strength diminishes somewhat with age. Gradually decomposes in air to sulfate, generating sulfurous acid gas. Contact with moisture (water, wet ice, etc.), will release toxic Sulfur Dioxide gas.

**HAZARDOUS DECOMPOSITION PRODUCTS:**  
Oxides of sulfur and sodium may form when heated to decomposition

**HAZARDOUS POLYMERIZATION:**  
Will not occur.

**INCOMPATIBILITIES:**  
Water, Acids, Alkalis, Sodium Nitrite, Oxidizers. Aluminum Powder.

**CONDITIONS TO AVOID:**  
Moisture, heat, flames, ignition sources and incompatibles.

**TOXICOLOGICAL INFORMATION**

**SODIUM METABISULFITE \_7681-57-4'** No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen, mutagen and reproductive effector.

**SODIUM BISULFITE \_7631-90-5'** Oral rat LD50: 2000 MG/KG. Investigated as a tumorigen and mutagen.

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**CANCER LISTS**

**NTP CARCINOGEN**

INGREDIENT CATEGORY	KNOWN	ANTICIPATED	IARC
Sodium Metabisulfite (7681 -57-4)	NO	NO	

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Sodium Bisulfite (7631-90-5)

NO

NO

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**ECOLOGICAL INFORMATION**

**ENVIRONMENTAL FATE:**

No information found

**ENVIRONMENTAL TOXICITY:**

No information found

**DISPOSAL CONSIDERATIONS**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with Federal, State and local requirements.

**TRANSPORT INFORMATION**

Not regulated

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**REGULATORY INFORMATION**

**CHEMICAL INVENTORY STATUS – PART 1**

INGREDIENT	TSCA	EC	JAPAN
AUSTRALIA			
Sodium Metabisulfite (7681-57-4)	YES	YES	YES
YES			
Sodium Bisulfite (7631-90-5)			

**CHEMICAL INVENTORY STATUS PART 2**

INGREDIENT		CANADA	
	KOREA	DSL	NDSL
PHIL			
Sodium Metabisulfite (7681-57-4)	YES	YES	NO
YES			
Sodium Bisulfite (7631-90-5)	YES	YES	NO
YES			

**FEDERAL STATE & INTERNATIONAL REGULATIONS - PART 1**

		SARA 302-		
SARA 313				
INGREDIENT		RQ	TPQ	LIST
CHEMICAL CATGSS				
Sodium Metabisulfite (7681-57-4)		NO	NO	NO
NO				
Sodium Bisulfite (7631-90-5)		NO	NO	NO
NO				

**FEDERAL, STATE & INTERNATIONAL REGULATIONS – PART 2**

**-TSCA-  
INGREDIENT  
8(D)**

**-RCRA-  
CERCLA 261.33**

**Sodium Metabisulfite (7681-57-4)**

**NO NO**

**YES**

**Sodium Bisulfite (7631-90-5)**

**5000 NO**

**YES**

**CHEMICAL WEAPONS CONVENTION: NO TSCA 12(B): NO CDTA:**

**NO**

**Sara 311/312: ACUTE: YES CHRONIC: NO FIRE: NO**

**PRESSURE: NO**

**Reactivity: YES MIXTURE: SOLID**

**AUSTRALIAN HAZCHEM CODE: None allocated**

**POISON SCHEDULE: None allocated**

**Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA): No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.**

**Whmis: This MSDS has been prepared according to the hazard criteria of the controlled products regulations (CPR) and the MSDS contains all of the information required by the CPR.**

**OTHER INFORMATION**

**NFPA RATINGS:**

**HEALTH: 3 FLAMMABILITY: 0 REACTIVITY:**

**This information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of this product.**