

## MATERIAL SAFETY DATA SHEET

### TRADE NAMES

All Clear Dry Acid

MSDS Date: 4-1-95

### MANUFACTURER

AQUA TRI  
17872 Mitchell  
Irvine, CA 92614  
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Emergency Phone#  
Call CHEMTREC 1-800-424-9300

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## SECTION I - PRODUCT IDENTIFICATION

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Product Name: Sodium Bisulfate Anhydrous Globular, Technical  
Chemical Formula: NaHSO<sub>4</sub>  
Cas Number: 7681381  
Niosh Registry No.: Unknown  
General or Generic ID: Sodium Acid Sulfate, Nitre Cake  
Hazard Classification (DOT): Not classified as hazardous  
UN No.: 1821

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## SECTION II - HAZARDOUS COMPONENTS

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<u>INGREDIENT</u>	<u>PERCENT BY WEIGHT</u>	<u>PEL</u>	<u>TLV</u>
Sodium Bisulfate	94.5	None Established	None Established

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## SECTION III - PHYSICAL DATA

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<u>PROPERTY</u>	<u>REFINEMENT</u>	<u>VALUE</u>
Melting Point		350° F
Bulk Density		83 lb./ft <sup>3</sup>
Solubility		100%
Percent Volatile		Non-volatile
Description: Off-White, Bead Like, Granular, Dry Material.		

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## SECTION IV - FIRE AND EXPLOSION DATA

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**FLASH POINT:** Not applicable will not burn

**EXPLOSIVE LIMITS:** Upper: Not applicable Lower: Not applicable

**EXTINGUISHING MEDIA:** Water or Dry chemical as appropriate for combustibles in area.

**HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:** At temperatures over 570 F, hazardous fumes of sulfur dioxide and sulfur trioxide are generated.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Product readily dissolves in water to form a weak sulfuric acid solution. No gases or toxic fumes are emitted from this reaction, but precautions for exposure to sulfuric acid should be followed.

**SPECIAL FIRE FIGHTING PROCEDURES:** If water is used to extinguish combustibles and product is dissolved in water forming sulfuric acid wear acid protective equipment. If elevated temperatures (>570° F) are reached self-contained breathing apparatus should be worn.

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## **SECTION V - HEALTH HAZARD DATA**

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**PRINCIPLE HEALTH HAZARDS:** Including significant routes, effects, symptoms of overexposure, and medical conditions aggravated by exposure.

**EYE:** Mild to severe irritant. May cause burns if not flushed with water.

**SKIN:** Mild to sever irritant. May cause burns if not flushed with water.

**INHALATION:** Irritant. May irritate or burn nose, throat and lungs. No exposure limits have been established.

**INGESTION:** Irritant. May irritate or burn mouth, esophagus, or stomach. No exposure limits established.

### **FIRST AID:**

**IN EYES:** Immediately flush with water for 15 minutes lifting eyelids to thoroughly flush. Get prompt medical attention.

**ON SKIN:** Immediately flush with water for 15 minutes. If burns occur obtain medical help.

**IF INHALED:** Move to fresh air location. If irritation or discomfort persists, seek medical attention.

**IF SWALLOWED:** Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs, or vegetable oil. Do not induce vomiting. Contact physician immediately.

### **NOTES TO PHYSICIAN:**

**EYES:** Natural watering of eyes will dissolve sodium bisulfate forming a weak sulfuric acid solution which may cause burns. Flush effected area thoroughly with water. Do not use chemical antidotes or neutralizing solution.

**SKIN:** Mild burns may occur if not flushed previously.

**INHALATION:** Mild burning sensations may occur to mucous membranes, and upper respiratory tract.

**INGESTION:** Body water content will react with sodium bisulfate to form a weak sulfuric acid solution, which may burn tissues in mouth, esophagus, or stomach. Solution should be diluted to reduce burning effect.

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## **SECTION VI - REACTIVITY DATA**

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**STABILITY:** Stable

**INCOMPATIBILITY:** Avoid contact with strong alkaline materials such as caustic. Reacts with water to form weak sulfuric acid solution.

**CONDITIONS TO AVOID:** Store in dry area to avoid moisture contact.

**HAZARDOUS DECOMPOSITION:** None unless heated over 570° F at which sulfur dioxide and sulfur trioxide are formed.

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## **SECTION VII - SPILL OR LEAK PROCEDURES**

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**SMALL SPILL:** Material is a granular product and can be swept up from surfaces.

**LARGE SPILL:** Pick up as much as possible with shovel or other tool. Neutralize balance of spill with weak alkaline solution, and wash down to sewer if federal, state, and local regulations permit.

**WASTE DISPOSAL METHOD:** Comply with all local, state, and federal regulations.

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## **SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED**

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**VENTILATION:** Local ventilation to a dust collector is recommended.

**RESPIRATORY PROTECTION:** NIOSH or MSA certified dust mask should be worn while handling product. To control exposure below nuisance dust limits of 10 mg/m<sup>3</sup>.

**PROTECTIVE GLOVES:** Wear acid resistant gloves such as rubber or neoprene.

**EYE PROTECTION:** Safety goggles or full face shield.

**OTHER PROTECTIVE EQUIPMENT:** Clothes should completely cover skin to avoid skin contact. Coats, Coveralls, or Aprons are recommended.

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## **SECTION IX - SPECIAL PRECAUTIONS**

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Avoid contact with skin, eyes, or clothing.

Do not store where exposed to moist conditions or near strong alkalis.

Keep containers tightly closed.

Wear all recommended protective equipment when handling.

### **NOTICE:**

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Aqua Tri makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Aqua Tri be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No Representation Or Warranties, Either Express OR Implied, Of Merchantability, Fitness For A Particular Purpose Or Of Any Other Nature Are Made Hereunder With Respect To Information Or The Product To Which Information Refers.