

# Material Safety Data Sheet

Aquatic BioScience®, LLC  
Tel: (707)964-9659

January 2006

---

## SECTION I – IDENTIFICATION

---

Trade Name: Real Clear® Dechlorinator (Liquid)

Name and/or Family or Description: Sodium Thiosulfate

Chemical Formula: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> (anhydrous) Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> (pentahydrate)  
Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> + H<sub>2</sub>O (solution)

CAS No.: 7772-98-7 (anhydrous)

DOT Proper Shipping Name: Chemicals Not Otherwise Indexed (NOI), Non-Hazardous

DOT Hazard Class: Not hazardous

DOT Label: None

---

## SECTION II – COMPONENTS (Hazardous & Other)

---

*Hazardous ingredients:*

*None known*

**Carcinogenicity:** None of the compounds are considered carcinogens by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration nor are they known to be mutagenic.

---

## SECTION III – PHYSICAL DATA

---

State: Clear Liquid

Appearance: Clear

Odor: Slight

Boiling Point: 100 F

Melting Point: 48 F

Vapor Density: Not Applicable

Water Solubility %: 42% @ 0 Degrees C (hydrate)  
33% @ 0 Degrees C (anhydrous)

Storage Conditions: Store tightly closed in cool place away from acids or oxidizers.

---

## SECTION IV – FIRE AND EXPLOSION HAZARD DATA

---

Flash Point:	None
Ignition Temperature:	N/A
Flammable Limits:	N/A
Special Fire Fighting Procedure:	Firefighters should wear self-contained, NIOSH-approved breathing apparatus to protect against any release of toxic and/or irritating fumes. Skin and eye protection should also be provided. Use water spray to knock down fumes and to keep fire-exposed containers cool.
Extinguishing Media:	If involved in a fire, choose extinguishing agent most suitable for type of surrounding fire. Material itself is not combustible.
Unusual Fire Explosion Hazards:	If involved in a fire, toxic and irritating gases and residue may evolve.

---

## SECTION V – HEALTH HAZARD DATA

---

Primary Routes Of Entry: Ingestion and Inhalation, no appreciable entry known through intact skin although irritation possible, see below..

### SIGNS AND SYMPTOMS OF EXPOSURE:

Effects of Overexposure: Possible allergic response or irritation in affected individuals to skin contact, eye contact, or inhalation of dust from product.

Medical Conditions Prone to Aggravation By Exposure: Individuals with known allergies, particularly to feedstuffs or enzymes. Individuals with chronic respiratory diseases or particular susceptibility to them. Individuals with asthmatic conditions should avoid contact with dusty conditions.

---

## **SECTION VI – EMERGENCY AND FIRST AID PROCEDURES**

---

If inhaled: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

In case of eye contact: Flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical assistance.

In case of skin contact: Wash with soap and water, then flush with water until all chemical is removed. Remove contaminated clothing and wash before reuse.

If swallowed: If conscious, promptly give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. If symptoms develop, get medical attention. Do not give anything by mouth to an unconscious or convulsing person.

Notes to physician: None

---

## **SECTION VII – REACTIVITY DATA**

---

STABILITY: Stable

POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None Known

MATERIALS TO AVOID: Strong Oxidizers cause vigorous exothermic reactions. Acids release sulfur dioxide gas. Water reactive materials such as sodium cause strong exothermic reaction with the hydrate. Violent reaction with sodium nitrite when water of crystallization has been driven by heating.

HAZARDOUS DECOMPOSITION PRODUCTS:

**Sulfur Dioxide Gas** - toxic, corrosive, and is an oxidizer.

**Sodium Sulfide** - residue is flammable, a dangerous fire risk, a strong irritant to skin and tissue and incompatible with acids.

---

## **SECTION VIII – SPILL, LEAK AND DISPOSAL INFORMATION**

---

WASTE DISPOSAL: Dispose of in a sanitary chemical landfill which complies with all local, state, and federal regulations.

SPILL OR LEAKAGE PROCEDURES: Promptly shovel or sweep up the dry chemical into an empty container with a minimum of dusting. Cover and store as above. Contact appropriate regulatory authorities for approved method of disposal, as necessary..

## **SECTION IX – SAFE HANDLING AND USE INFORMATION**

Permissible Concentrations: Not established

Respiratory Protection: If dusty or misty condition prevails, use dust or mist respirator, approved by NIOSH. If sulfur dioxide should be released, use a supplied-air respirator or self-contained breathing apparatus or other alternative choice, approved by NIOSH, as recommended for this gas.

Ventilation: Provide local exhaust if dusty or misty conditions prevail, and if there should be a release of sulfur dioxide gas. Keep incompatible materials out of hoods, ducts, etc.

Other Protective Equipment: Eye wash facility

Storage and Handling: Maintain good housekeeping, avoid creating aerosol. Keep out of direct sunlight and in cool dry place (under 110°F) as deterioration of product and loss of activity may occur.

**Keep out of children's reach.**

May cause skin or eye irritation. Avoid contact with skin and clothing and prolonged inhalation. Wash hands, clothes and equipment after use.

Eye Protection: ANSI approved safety glasses with side protection. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.

Skin Protection: Long sleeved shirt, trousers, safety shoes, and gloves.

Hygienic Practices: Wash hands after handling, as well as any other affected skin areas. Avoid contact with food or food preparatory surfaces. If this occurs wash the area thoroughly with suitable detergent and water. Remove and wash contaminated clothing.

## **SECTION X - TOXICITY DATA**

CARCINOGENITY: This material is not considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

Also see Health Hazard Data (section V) above

---

**SECTION XI - ECOLOGICAL INFORMATION**

---

None found

---

**SECTION XII - WARNING STATEMENTS**

---

ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH IN THIS SHEET ARE BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, AQUATIC BIOSCIENCE, LLC MAKES NO REPRESENTATION AS TO THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION AND RECOMMENDATIONS. AQUATIC BIOSCIENCE, LLC SHALL IN NO EVENT BE RESPONSIBLE FOR ANY DAMAGES OF WHATSOEVER NATURE DIRECTLY OR INDIRECTLY RESULTING FROM THE PUBLICATION OR USE OF OR RELIANCE UPON SUCH INFORMATION AND RECOMMENDATIONS. YOU ARE ENCOURAGED TO ADVISE ANYONE WORKING WITH OR EXPOSED TO SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

NO WARRANTY, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY OR FITNESS OR OF ANY OTHER NATURE WITH RESPECT TO THE PRODUCT OR TO THE INFORMATION AND RECOMMENDATIONS HEREIN MADE HEREUNDER.