

# MATERIAL SAFETY DATA SHEET

PAGE #: 1 OF 4

PRODUCT NAME: BT 503

MSDS NUMBER: 32502BT503

PRODUCT CODE: BOILER WATER OXYGEN SCAVENGER

MSDS DATE: 3/25/02

KEY NUMBER: BT 503

EMERGENCY PHONE #'s: 800-255-3924 (CHEMTEL)



## Advanced Chemical Technology, Inc.

10743 Edison Court • Rancho Cucamonga, CA 91730 USA

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<b>HEALTH</b>	<b>1</b>	Slightly Hazardous
<b>FIRE</b>	<b>0</b>	Will Not Burn
<b>REACTIVITY</b>	<b>1</b>	Unstable if Heated
<b>SPECIFIC</b>	Corrosive - COR	

### 1. IDENTIFICATION

See Addendum: Ref. PAGE:

**Chemical Name:** BT 503

**Chemical Family:** SULFITES

**CAS #:** MIXTURE

**Chemical Formula:** MIXTURE

**CAS Name:** MIXTURE

**Molecular Weight:** MIXTURE

**Synonyms / Common Name:** OXYGEN SCAVENGER, CATALYZED SULFITE

**DOT Information:** BISULFITES,AQUEOUS SOLUTION,N.O.S.,8,UN 2693,PG III

### 2. PHYSICAL DATA

See Addendum: Ref. PAGE:

**Appearance:** Clear Pink Liquid

**Color:** Pink

**State:** Liquid

**Odor Characteristics:** Pungent

**pH:** (Neat) 4.8-5.6

**Viscosity:** ND

**Specific Gravity (Water = 1):** 1.318

**Vapor Density (Air = 1):** ND

**Vapor Pressure:** ND

**Melting Point:** NA

**Boiling Point:** < 212 F

**Flash Point:** NA

**Freezing Point:** ND

**Percent Volatility:** ND

**Evaporation Rate (BAc = 1):** <1

**Solubility in Water:** Complete

**Solubility in Oil:** ND

**Solubility in Acetone:** ND

### 3. INGREDIENTS - HAZARDOUS

See Addendum: Ref. PAGE:

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Sodium Metabisulfite	7681-57-4	Sodium Metabisulfite	5 mg/M3	30-40

### 4. FIRE AND EXPLOSION HAZARD DATA

See Addendum: Ref. PAGE:

**Flash Point:** NA

**Flammable Limits in Air % by volume:** Lower NA  
Upper NA

**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical for fires in storage areas.

**Special Fire Fighting Procedures:** Keep container cool with water spray. Fire Fighters should wear self-contained breathing apparatus and full protective clothing.

**Unusual Fire & Explosion Hazards:** In the event of combustion, SO<sub>x</sub>,H<sub>2</sub>S may be formed. Do not breath smoke or fumes.

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**5. HEALTH HAZARD DATA** See Addendum:

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**Threshold Limit Value:** 5 mg/M3**Effects of Overexposure:****Inhalation:** May cause irritation of upper respiratory passages.**Skin Contact:** Causes skin irritation. May cause a more serious response if confined to the skin or if the skin is abraded. A single prolonged exposure is not likely to result in harmful quantities being absorbed.**Eye Contact:** Can cause mild, short lasting irritation.**Ingestion:** Swallowing large quantities causes headaches, nausea, vomiting, stomach cramps, and diarrhea, and perhaps unconsciousness, or death.**Delayed Effects:** Ingestion of sulfite can cause an allergic reaction in sensitive individuals. The resultant symptoms can include difficulty in breathing, flushed skin and a rash.**Medical Conditions Aggravated by Exposure** ND**6. FIRST AID MEASURES** See Addendum:

PAGE #:

**Inhalation:** If breathing stops, give artificial respiration. Call a physician immediately.**Skin Contact:** Immediately remove clothing under a safety shower. Flush all affected areas with large amounts of water for at least 15 minutes.**Eye Contact:** Immediately flush the eyes with large quantities of water for a minimum of 15 minutes. Obtain medical attention immediately.**Ingestion:** Induce vomiting. If conscious, give large quantities of water. Call a physician or the nearest Poison Control Center. If having trouble breathing, or in convulsions, do not induce vomiting or give water.**NOTES TO PHYSICIAN:** Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.**7. REACTIVITY DATA** See Addendum:

PAGE #:

**Stability:** Stable**Incompatibility: (materials to avoid)** Strong oxidizers (eg. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates).  
Strong acids (eg. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic)**Hazardous Combustion or Decomposition Products** Evolves SO<sub>2</sub> when open to atmosphere. The rate of SO<sub>2</sub> evolution increases with temperature. In the event of combustion, SO<sub>x</sub>, H<sub>2</sub>S may be formed.**Hazardous Polymerization:** Will not occur.**Conditions to Avoid:** Do not mix with other industrial chemicals.**8. SPILL OR LEAK PROCEDURES** See Addendum:

PAGE #:

**Actions to take for Leaks & Spills** For small spills mop or wipe up. For large spills, contain by diking with soil or other absorbent material. Keep out of sewers, drains, surface waters, and soil.**Waste Disposal Method:** Dilute sodium carbonate (soda ash) may be used to neutralize the final traces immediately after flushing. Use D.O.T. approved containers for waste disposal. Dispose of all waste according to Federal, State, and Local regulations.



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**9. SPECIAL PROTECTION INFORMATION**

See Addendum:

Ref. PAGE:

**Respiratory Protection:** NIOSH approved respirator in the absence of adequate environmental controls at the point of use.

**Eye Protection:** Chemical goggles and face shield.

**Skin Protection:** Rubber gloves.

**Other Clothing:** Rubber apron and protective clothes.

**Other Equipment:** None

**Engineering Controls:** Normal

**10. HANDLING AND STORAGE**

See Addendum:

Ref. PAGE:

**Special Precautions:** Do not get in eyes, on skin, or on clothing. Store in cool protected location.

**Other Precautions:** An eyewash and safety shower should be nearby and ready for use.

**11. REGULATORY INFORMATION**

See Addendum:

Ref. PAGE: 4

**Workplace Classification:** NE

**12. TOXICOLOGICAL INFORMATION**

See Addendum:

Ref. PAGE:

**Acute Data:** NE

**Reproductive /  
Teratology Data** NE

**13. ECOLOGICAL INFORMATION**

See Addendum:

Ref. PAGE:

**Fate in the Environment:** NE

**14. DISPOSAL CONDITIONS**

See Addendum:

Ref. PAGE:

**Procedures:** Dispose of all waste according to Federal, State, and Local regulations.

**15. TRANSPORTATION INFORMATION**

See Addendum:

Ref. PAGE:

**DOT Classification:** BISULFITES,Aqueous solution,N.O.S.,8, UN 2693,PG III  
Emergency Response Guide Book Number 154

**Warning Labels:** CORROSIVE



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**ADDENDUM for Section - 11. REGULATORY INFORMATION - Ref. Pg. 3**

OSHA's Hazard Communication Rule, 29 CFR 1910.1200: Based on our hazard evaluation, the following ingredient in this product is hazardous and the reason is shown below.

Sodium Metabisulfite= Irritant TWA 2 ppm, STEL 5 ppm  
ACGIH/TLV 5mg/M3 10mg/M3

CERCLA Status: Reportable Quantity for Sodium Metabisulfite: 18000 lbs.

SARA/Title III- Section 302 Emergency Planning Notification/Threshold Planning Quantities: No (X) Yes ( )

SARA/Title III- Section 313 Toxic chemical release reporting. This product does not contain a Section 313 listed toxic chemical subject to release reporting requirements.

TSCA Inventory Status- All chemical components are listed on TSCA Inventory.

California Proposition 65 Status- This product does not contain chemicals currently on the California list of known carcinogens and/or reproductive toxins.

**ADDENDUM for Section - Other Information**

NA = Not Applicable  
ND = Not Determined  
NE = Not Established

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Advanced Chemical Technology makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Accordingly, Advanced Chemical Technology will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied or merchantability fitness for a particular purpose or of any other nature are made hereunder with respect to the information set forth herein or to the product to which the information refers.

**ADDENDUM for Section -**