



**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: BT-530

Description: Boiler Water Oxygen Scavenger  
Suggested Use: Industrial Water Treatment  
Restrictions on Use: Do not mix with other industrial chemicals

Supplier: Advanced Chemical Technology, Inc.  
8728 Utica Avenue  
Rancho Cucamonga, CA 91730

Telephone: 1-909-980-4556 or 1-800-632-1777  
Fax: 1-909-980-9366

Emergency Phone: 1-800-255-3924 (CHEMTEL)

**2. HAZARDS IDENTIFICATION**

**Classification**

GHS Classification: Skin Corrosion (Category 1A)  
Serious Eye Damage (Category 1)  
Acute Toxicity, Oral (Category 4)  
Acute Aquatic Toxicity (Category 3)

**GHS Label Elements**

Pictogram: 

Signal Word: Danger

Hazard Statements: H314: Causes severe skin burns and eye damage  
H302: Harmful if swallowed  
H402: Harmful to aquatic life

Precautionary Statements: P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P303+P361+P353: IF ON SKIN OR HAIR: Remove all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting.  
P313: Get medical attention.

HMIS Classification: Health Hazard: 1  
Flammability: 0  
Physical Hazards: 1

NFPA Rating: Health Hazard: 1  
Fire: 0  
Reactivity Hazard: 1

**Potential Health Effects**



Inhalation: Vapor is irritating to mucous membranes and respiratory system.  
Skin: May cause corrosive action on contact with skin. May cause a more serious response if confined to the skin or if skin is abraded. A single prolonged exposure is unlikely to result in harmful quantities being absorbed.  
Eyes: Vapors will irritate the eyes. Liquids and mists can severely irritate or damage the eyes and cause corneal burns.  
Ingestion: This material is corrosive to the mouth and throat.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS Number</u>	<u>Concentration</u>
Sodium Metabisulfite	7681-57-4	24%

Synonyms:

**4. FIRST AID MEASURES**

If Inhaled: If not breathing, give artificial respiration. Consult a Physician.  
Skin Contact: Immediately remove contaminated clothing and shoes, wash before reuse. Flush all affected areas with large amounts of water for at least 15 minutes.  
Eye Contact: Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Obtain medical attention immediately.  
If Ingested: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water (If available, give several glasses of milk). If vomiting occurs spontaneously, keep airway clear and give more water. Consult a physician immediately.

**5. FIREFIGHTING MEASURES**

Flammability Overview: In the event of combustion, SO<sub>x</sub>, H<sub>2</sub>S may be formed. Do not breathe smoke or fumes.  
Flash Point: Not Applicable  
Extinguishing Media: Water-spray, foam, carbon dioxide or dry chemical for fires in storage areas.  
Special Protective Equipment for Firefighters: Wear a self-contained breathing apparatus (SCBA) for firefighting if necessary.  
Hazardous Combustion Products: Evolves SO<sub>2</sub> when open to atmosphere. The rate of SO<sub>2</sub> evolution increased with temperature. In the event of combustion, SO<sub>x</sub>, H<sub>2</sub>S may be formed

**6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Use personal protective equipment. Wear goggles, rubber boots and gloves.  
Environmental Precautions: Prevent from entering drains and waterways. Discharge into the environment must be avoided.  
Containment and Clean Up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. If assistance is needed call CHEMTEL or emergency services.



**7. HANDLING AND STORAGE**

Safe Handling: Use personal protective equipment. Avoid breathing vapors, mist, or gas. Always ensure adequate ventilation.

Safe Storage: Keep containers tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Limits**

Component	CAS Number	Exposure Limit	Basis
Sodium Metabisulfite	7681-57-4	5 mg/m <sup>3</sup>	ACGIH Threshold Value (TLV)
		5 mg/m <sup>3</sup>	OSHA Table Z-1: Limits for Air Contaminants
		Not Established	NIOSH Recommended Exposure Limits

**Personal Protective Equipment**

Eye Protection: Wear tightly fitting safety goggles or safety glasses with a full-face shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH. Have eye-wash stations available where eye contact can occur.

Hand Protection: Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves. Wash and dry hands after use.

Skin Protection: Wear complete suit protection against chemicals, including chemical-resistant boots. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Safety showers should be located in the work area where skin contact can occur.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full-face respirator with appropriate cartridges. For high concentrations, unknown concentrations, and for oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

General Controls: Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Liquid  
Color: Pink  
Odor: Pungent  
Odor Threshold: Not Established  
pH(Neat): 6.3-7.0  
Melting/Freezing Point: Not Established  
Boiling Point: <212 °F  
Flash Point: Not Applicable



Evaporation Rate:	Not Established
Flammability (solid, gas):	Not Applicable
Flammability/Explosion Limits:	Not Applicable
Vapor Pressure @ 20°C:	Not Established
Vapor Density:	Not Established
Specific Gravity:	1.334
Density:	Not Established
Solubility in Water:	Complete
Partition Coefficient:	Not Established
Autoignition Temperature:	Not Established
Decomposition Temperature:	Not Established
Viscosity:	Not Established

**10. STABILITY AND REACTIVITY**

Chemical Stability:	Stable under recommended condtions.
Conditions and Materials to Avoid:	Do not mix with other industrial chemicals. Strong oxidizers, strong acids.
Hazardous Decomposition Products:	Evolved SO <sub>2</sub> when open to atmosphere. The rate of SO <sub>2</sub> evolution increased with temperature. In the event of combustion, Sox, H <sub>2</sub> S may be formed.

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

Component	CAS Number	Test	Toxicity
Sodium Metabisulfite	7681-57-4	Oral LD50 (Rat)	Not Established
		Dermal LD50	Not Established
		Inhalation LD50 (Rat)	Not Established

**Potential Health Effects**

Inhalation:	May cause irritation of upper respiratory passages.
Skin:	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 unlikely to result in harmful quantities being absorbed.
Eyes:	Can cause mild, short lasting irritation.
Ingestion:	Swallowing large quantities causes headaches, nausea, vomiting, stomach cramps, and diarrhea, and perhaps unconsciousness.
Signs and Symptoms of Exposure:	Ingestion of sulfite can cause an allergic reaction in sensitive individuals. The resultant symptoms can include difficulty in breathing, flushed skin and a rash.
Chronic Effects of Long-term Exposure:	Primary irritant dermatitis. Prolonged contact may result in destruction of tissue.
Carcinogenicity:	No component of this product at levels greater than 0.1% is identified as carcinogenic by IARC, ACGIH, or OSHA.

**12. ECOLOGICAL INFORMATION**



**Acute Ecotoxicity**

Component	CAS Number	Organism	Ecotoxicity
Sodium Metabisulfite	7681-57-4	Not Established	Not Established

**Ecological Effects**

Persistence and Degradability: Will combine with oxygen to form sodium sulfate.

Bioaccumulation Potential: Not expected to bio-accumulate

Mobility in Soil: Not Established

Other Adverse Effects: Not Established

---

**13. DISPOSAL CONSIDERATIONS**

Disposal: Surplus and non-recyclable material should be treated as hazardous waste and be disposed of by a licensed disposal company. Material should be disposed in accordance with all local, state, and federal regulations. Regulations vary by region. Do not release into sewers or waterways.

Contaminated Packaging: Dispose of as unused product.

---

**14. TRANSPORT INFORMATION**

**DOT Information**

Proper Shipping Name: Bisulfites, aqueous solution, n.o.s.  
UN Number: 2693  
Hazard Class: 8  
Packing Group: III

Reportable Quantity (RQ):

Marine Pollutant:

Note: Regulated for both bulk and non-bulk.

---

**15. REGULATORY INFORMATION**

**US Federal**

SARA 302 Components: This product does contain a Section 302 substance subject to Emergency Planning Notification/Threshold Planning Quantities: Sodium metabisulfite: 10,000 lbs.

SARA 311/312 Hazards: Acute  
SARA 313 Components: Reactive, Acute, Chronic Health Hazard

TSCA Inventory: All chemical components are listed on TSCA Inventory.

**European Union**



**Advanced Chemical Technology Inc.**

---

**BT-530**

**SAFETY DATA SHEET**

Version 1.0

Effective Date: 06/01/2015

EC Inventory: Not Established

**State Regulations**

CA Prop 65: This product does not contain chemicals currently on the California list of known carcinogens and/or reproductive toxins.

---

**16. OTHER INFORMATION**

SDS Version: 1.0

Revision Date: 06/01/2015

Disclaimer: The information contained in this document was carefully compiled and is believed to be accurate. The information represents the present state of our knowledge and is applicable to the product with the regard to appropriate safety precautions. However, it does not represent any guarantee of the properties of the product. Advanced Chemical Technology, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product. It is the responsibility of the purchaser to determine the suitability of the product for their particular purposes. Nothing contained herein shall be construed to be a recommendation to use, or as a license to operate under, or to infringe any existing patents.

For product information call Advanced Chemical Technology, Inc., 1-909-980-4556