

BT-240

SAFETY DATA SHEET

Version 1.1 Effective Date: 06/01/15

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: BT-240

Description: **Boiler Water Treatment** 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 1-800-527-9607

Fax: 1-909-980-9366

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

2. HAZARDS IDENTIFICATION

Classification

Pictogram:

GHS Classification: Skin Corrosion (Category 1A)

> Serious Eye Damage (Category 1) Acute Toxicity, Oral (Category 4) Acute Aquatic Toxicity (Category 3)

GHS Label Elements

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:

> Flammability: 0 0

Physical Hazards:

NFPA Rating: Health Hazard: 1

> Fire: 0 Reactivity Hazard:



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Potential Health Effects

Inhalation: Mists and vapors are irritating to the nose, throat, and mucous membranes. Skin: Causes skin irritation. A single prolonged exposure is unlikely to result in

harmful quantities being absorbed.

Eyes: Liquids and mists can severely irritate or damage the eyes and cause corneal

burns.

Ingestion: This material is irritating to the mouth and throat.

3. COMPOSITION/INFORMATION ON INGREDIENTS

ComponentCAS NumberConcentrationSodium Hydroxide1310-73-2< 8%</td>Hydroxyethylidene diphosphonic acid, sodium salt3794-83-0< 10%</td>Sodium sulfite7757-83-7< 10%</td>

Synonyms:

4. FIRST AID MEASURES

If Inhaled: If inhaled, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

Skin Contact: Take off contaminated clothing and shoes immediately. Flush skin with plenty of

water for at least fifteen minutes. Consult a physician.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes and consult a physician.

Remove contact lenses if able to do so. Continue rinsing eyes during transport

to hospital.

If Ingested: Do NOT induce vomiting unless instructed to do so by a physician. Never give

anything by mouth to an unconscious person. Rinse mouth with water. Consult

a physician.

5. FIREFIGHTING MEASURES

Flammability Overview: Dried residue can thermally decompose, giving off irritating and potentially toxic

fumes.

Flash Point: Not Applicable

Extinguishing Media: Use water-spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Tailor

extinguishing media to surrounding fire.

Special Protective Equipment

for Firefighters:

Wear a self-contained breathing apparatus (SCBA) for firefighting if necessary.

Hazardous Combustion

Products:

Carbon monoxide, carbon dioxide and sulfur dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Avoid breathing vapors, mist, or gas.

Always ensure adequate ventilation. Evacuate personnel to safe areas.



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Environmental Precautions: Prevent further leakage or spillage if safe to do so. 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

CHEMTREC 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 |
|---------------------------|------------|---------------------|---|
| | | 2 mg/m ³ | ACGIH Threshold Value (TLV) |
| Sodium hydroxide | 1310-73-2 | 2 mg/m ³ | OSHA Table Z-1: Limits for Air Contaminants |
| | | 2 mg/m ³ | NIOSH Recommended Exposure Limits |
| Hydroxyethylidene | 3794-83-0 | Not Established | ACGIH Threshold Value (TLV) |
| diphosphonic acid, sodium | | Not Established | OSHA Table Z-1: Limits for Air Contaminants |
| salt | | Not Established | NIOSH Recommended Exposure Limits |
| | | Not Established | ACGIH Threshold Value (TLV) |
| Sodium Sulfite | 7757-83-7 | Not Established | 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.



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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: Dark Amber liquid

Odor: Bland

Odor Threshold: Not Established

pH: >12.5

Melting/Freezing Point: Not Established

Boiling Point: 212°F

Flash Point: Not Established

Evaporation Rate: 1

Flammability (solid, gas):

Flammability/Explosion Limits:

Vapor Pressure @ 20°C:

Vapor Density:

Specific Gravity:

Not Established

Not Established

Not Established

Not Established

Not Established

Not Established

1.126

Density: Not Established

Solubility in Water: Soluble

Partition Coefficient:
Autoignition Temperature:
Decomposition Temperature:
Viscosity:

Not Established
Not Established
Not Established

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Conditions and Materials to

Avoid:

Compatible with most boiler water treatment compounds at use dosages. Do

not mix with other industrial chemicals.

Hazardous Decomposition

Products:

Carbon monoxide, carbon dioxide and sulfur dioxide.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| Component | CAS Number | Test | Toxicity |
|--|------------|-----------------|-----------------|
| | 1310-73-2 | Oral LD50 | Not Established |
| Sodium hydroxide | | Skin | Not Established |
| | | Inhalation LC50 | Not Established |
| Hydroxyethylidene diphosphonic acid, sodium salt | | Oral LD50 | Not Established |
| | Inhalation | Skin | Not Established |
| Sociali Salt | | Inhalation LC50 | Not Established |
| | 7757-83-7 | Oral LD50 | Not Established |
| Sodium Sulfite | | Skin | Not Established |
| | | Inhalation LC50 | Not Established |



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Potential Health Effects

Inhalation: Mists and vapors are irritating to the nose, throat, and mucous membranes. Skin:

Causes skin irritation. A single prolonged exposure is unlikely to result in

harmful quantities being absorbed.

Eyes: Liquids and mists can severely irritate or damage the eyes and cause corneal

burns.

This material is irritating to the mouth and throat. Ingestion:

Signs and Symptoms of

Exposure:

Not Established

Chronic Effects of Long-term

Exposure:

Not Established

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 hydroxide | 1310-73-2 | Not Established | Not Established |
| Hydroxyethylidene diphosphonic acid, sodium salt | 3794-83-0 | Not Established | Not Established |
| Sodium Sulfite | 7757-83-7 | Not Established | Not Established |

Ecological Effects

Persistence and Degradability: Not Established

Bioaccumulation Potential: Not expected to bio-accumulate

Mobility in Soil: Not Established

Other Adverse Effects: Harmful to aquatic life. The damaging effects are mostly the consequence of the

increase in pH of the water.

13. DISPOSAL CONSIDERATIONS

Surplus and non-recyclable material should be treated as hazardous waste and Disposal:

> 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: Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide)



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Advanced Chemical Technology, Inc.

UN Number: 3266 Hazard Class: 8 Packing Group: II

Reportable Quantity (RQ): Sodium Hydroxide: 1000 lbs.

Marine Pollutant: Not Established

Note: Regulated for both bulk and non-bulk.

15. REGULATORY INFORMATION

US Federal

SARA 302 Components: This product does not contain a Section 302 listed substance subject to

Emergency Planning Notification/Threshold Planning Quantities.

SARA 311/312 Hazards: Acute Health Hazard

SARA 313 Components: This product does not contain a Section 313 listed toxic chemical subject to

release reporting requirements.

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

European Union

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: 1.1

Revision Date: 06/01/15

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.