



# BWT O- (AFCO 8748)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 10/17/2024

Version: 1.2

## SECTION 1: IDENTIFICATION

### Product Identifier

Product Form: Mixture

Product Name: BWT O-

Product Code: AFCO 8748

### Intended Use of the Product

Use of the Substance/Mixture: Liquid boiler treatment (oxygen scavenger). For professional use only.

### Name, Address, and Telephone of the Responsible Party

#### Company

AFCO

550 Development Avenue

Chambersburg, PA 17201

T: 800-345-1329

[www.afcocare.com](http://www.afcocare.com)

### Emergency Telephone Number

Emergency Number : 1-800-424-9300 (CHEMTREC)

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

#### Classification (GHS-US)

Eye Dam. 1 H318

Aquatic Acute 3 H402

### Label Elements

#### GHS-US Labeling

#### Hazard Pictograms (GHS-US)

:



GHS05

#### Signal Word (GHS-US)

: Danger

#### Hazard Statements (GHS-US)

: H318 - Causes serious eye damage

H402 - Harmful to aquatic life

#### Precautionary Statements (GHS-US)

: P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Specific treatment (see section 4).

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### Other Hazards

Other Hazards Not Contributing to the Classification: N/A.

Other Hazards: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes.

Unknown Acute Toxicity (GHS-US) Not available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

| Name             | Product identifier | % (w/w) | Classification (GHS-US)  |
|------------------|--------------------|---------|--|
| Water            | (CAS No) 7732-18-5 | 60-70   | Not classified   |
| Sodium sulfite   | (CAS No) 7757-83-7 | 10-20   | Not classified   |
| Tetrasodium EDTA | (CAS No) 64-02-8   | 10-20   | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation: dust, mist), H332 |

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|  |  |  |   |
|--|--|--|---|
|  |  |  | Eye Dam. 1, H318<br>Aquatic Acute 2, H401 |
|--|--|--|---|

Full text of H-phrases: see section 16.

### SECTION 4: FIRST AID MEASURES

#### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention.

**Skin Contact:** Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse. Wash contaminated clothing before reuse.

**Eye Contact:** Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

#### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes serious eye damage.

**Inhalation:** None.

**Skin Contact:** May cause slight skin irritation.

**Eye Contact:** Causes serious eye damage.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** Not available.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide, foam, dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** When heated to decomposition, emits toxic fumes.

#### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Toxic fumes are released. Sulfur oxides. Sodium oxides.

**Other information:** Do not allow run-off from fire fighting to enter drains or water courses.

#### Reference to Other Sections

Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not allow product to spread into the environment. Do NOT breathe (vapors, mist, spray). Do not get in eyes, on skin, or on clothing.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** None.

#### Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Contact competent authorities after a spill. Absorb and/or contain spill with inert material, then place in suitable container. Clear up spills immediately and dispose of waste safely.

### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Additional Hazards When Processed:** When heated to decomposition, emits toxic fumes.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely low temperatures, incompatible materials.

**Incompatible Materials:** Acids. Strong oxidizers.

**Special Rules on Packaging:** Keep only in original container.

### **Specific End Use(s)**

Liquid boiler treatment (oxygen scavenger). For professional use only.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control Parameters**

No Occupational Exposure Limits (OELs) have been established for this product or any of its chemical components.

### **Exposure Controls**

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves.



**Materials for Protective Clothing:** None usually needed.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles.

**Skin and Body Protection:** None usually needed.

**Respiratory Protection:** None usually needed.

**Other Information:** When using, do not eat, drink or smoke.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on Basic Physical and Chemical Properties**

|   |                           |
|---|---------------------------|
| <b>Physical State</b>                             | : Liquid                  |
| <b>Appearance</b>                                 | : Clear, colorless        |
| <b>Odor</b>                                       | : Slight - sulfur dioxide |
| <b>Odor Threshold</b>                             | : Not available           |
| <b>pH</b>   | : >13                     |
| <b>Relative Evaporation Rate (butylacetate=1)</b> | : Not available           |
| <b>Melting Point</b>                              | : Not available           |
| <b>Freezing Point</b>                             | : Not available           |
| <b>Boiling Point</b>                              | : Not available           |
| <b>Flash Point</b>                                | : None                    |

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|   |   |
|---|---|
| Auto-ignition Temperature                         | : Not available   |
| Decomposition Temperature                         | : Not available   |
| Flammability (solid, gas)                         | : Not available   |
| Lower Flammable Limit                             | : Not available   |
| Upper Flammable Limit                             | : Not available   |
| Vapor Pressure                                    | : Not available   |
| Relative Vapor Density at 20°C                    | : Not available   |
| Specific Gravity                                  | : 1.18  |
| Solubility  | : Complete.   |
| Partition coefficient: n-octanol/water            | : Not available   |
| Viscosity   | : Not available   |
| Explosion Data – Sensitivity to Mechanical Impact | : Not expected to present an explosion hazard due to mechanical impact. |
| Explosion Data – Sensitivity to Static Discharge  | : Not expected to present an explosion hazard due to static discharge.  |

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** When heated to decomposition, emits toxic fumes. When mixed with acids, releases sulfur dioxide gas.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Extremely low temperatures. Incompatible materials.

**Incompatible Materials:** Acids, strong oxidizers.

**Hazardous Decomposition Products:** Thermal decomposition generates: Toxic gases. Sodium oxides. Sulfur oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified.

**LD50 and LC50 Data:** Not available.

**Skin Corrosion/Irritation:** May cause slight skin irritation. **pH:** >13

**Serious Eye Damage/Irritation:** Causes serious eye damage. **pH:** >13

**Respiratory or Skin Sensitization:** Not classified.

**Germ Cell Mutagenicity:** Not classified.

**Teratogenicity:** Not available.

**Carcinogenicity:** Not classified.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified.

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (Single Exposure):** Not classified.

**Aspiration Hazard:** Not classified.

**Symptoms/Injuries After Inhalation:** None.

**Symptoms/Injuries After Skin Contact:** May cause slight skin irritation.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

| <b>Water (7732-18-5)</b>          |                               |
|-----------------------------------|-------------------------------|
| LD50 Oral Rat                     | >90000 mg/kg                  |
| <b>Tetrasodium EDTA (64-02-8)</b> |                               |
| LD50 Oral Rat                     | 1780 mg/kg                    |
| ATE US (dust, mist)               | 1.50 mg/l/4h                  |
| <b>Sodium sulfite (7757-83-7)</b> |                               |
| LD50 Oral Rat                     | 3560 mg/kg                    |
| LC50 Inhalation Rat               | >22 mg/l (Exposure time: 1 h) |
| IARC Group                        | 3                             |

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### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

Ecology - General: Harmful to aquatic life.

| Tetrasodium EDTA (64-02-8) |   |
|----------------------------|---|
| LC50 Fish 1                | 41 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])   |
| LC50 Fish 2                | 59.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| ErC50 (algae)              | 2.77 mg/l (72 h - Species: Desmodesmus subspicatus)                     |

**Persistence and Degradability** Not available.

#### Bioaccumulative Potential

| BWT O- (AFCO 8748)        |                  |
|---------------------------|------------------|
| Bioaccumulative Potential | Not established. |
| Log Pow                   | -3.7 (at 25°C)   |

| Sodium sulfite (7757-83-7) |              |
|----------------------------|--------------|
| Log Pow                    | -4 (at 25°C) |

| Tetrasodium EDTA (64-02-8) |                   |
|----------------------------|-------------------|
| Log Pow                    | 5.01 (calculated) |

**Mobility in Soil** Not available.

#### Other Adverse Effects

Other Information: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 In Accordance with DOT

Proper Shipping Name : CORROSIVE LIQUID, BASIC , ORGANIC , N.O.S. (Tetrasodium EDTA)  
Hazard Class : 8  
Identification Number : UN3267  
Label Codes : 8  
Packing Group : III  
ERG Number : 153



#### 14.2 In Accordance with IMDG

Proper Shipping Name : CORROSIVE LIQUID, BASIC , ORGANIC , N.O.S. (Tetrasodium EDTA)  
Hazard Class : 8  
Identification Number : UN3267  
Packing Group : III  
Label Codes : 8  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B



#### 14.3 In Accordance with IATA

Proper Shipping Name : CORROSIVE LIQUID, BASIC , ORGANIC , N.O.S. (Tetrasodium EDTA)  
Packing Group : III  
Identification Number : UN3267  
Hazard Class : 8  
Label Codes : 8  
ERG Code (IATA) : 8L



#### 14.4 In Accordance with TDG

Proper Shipping Name : CORROSIVE LIQUID, BASIC , ORGANIC , N.O.S. (Tetrasodium EDTA)  
Packing Group : III  
Hazard Class : 8



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Identification Number : UN3267

Label Codes : 8

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

|  |                                  |
|--|----------------------------------|
| <b>BWT O- (AFCO 8748)</b>  |                                  |
| SARA Section 311/312 Hazard Classes  | Immediate (acute) health hazard. |
| <b>Water (7732-18-5)</b>   |                                  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory. |                                  |
| <b>Sodium sulfite (7757-83-7)</b>  |                                  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory. |                                  |
| <b>Tetrasodium EDTA (64-02-8)</b>  |                                  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory. |                                  |

#### US State Regulations

|  |  |
|--|--|
| <b>Sodium sulfite (7757-83-7)</b>                    |  |
| U.S. - Texas - Effects Screening Levels - Long Term  |  |
| U.S. - Texas - Effects Screening Levels - Short Term |  |
| <b>Tetrasodium EDTA (64-02-8)</b>                    |  |
| U.S. - Texas - Effects Screening Levels - Long Term  |  |
| U.S. - Texas - Effects Screening Levels - Short Term |  |

#### Canadian Regulations

|  |  |
|--|--|
| <b>Water (7732-18-5)</b>   |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |  |
| <b>Sodium sulfite (7757-83-7)</b>                                |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |  |
| <b>Tetrasodium EDTA (64-02-8)</b>                                |  |
| Listed on the Canadian DSL (Domestic Substances List)            |  |

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 10/15/2024

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

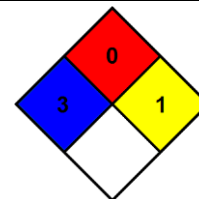
#### GHS Full Text Phrases:

|                                       |  |
|---------------------------------------|--|
| Acute Tox. 4 (Inhalation: dust, mist) | Acute toxicity (inhalation: dust, mist) Category 4             |
| Acute Tox. 4 (Oral)                   | Acute toxicity (oral) Category 4                               |
| Aquatic Acute 2                       | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3                       | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Eye Dam. 1                            | Serious eye damage/eye irritation Category 1                   |
| H302                                  | Harmful if swallowed   |
| H318                                  | Causes serious eye damage                                      |
| H332                                  | Harmful if inhaled   |
| H401                                  | Toxic to aquatic life  |
| H402                                  | Harmful to aquatic life  |

**NFPA Health Hazard** : 3-Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

**NFPA Fire Hazard** : 0 - Materials that will not burn.

**NFPA Reactivity** : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



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### HMIS III Rating

**Health** : 3 Serious Hazard - Major injury likely unless prompt action is taken, and medical treatment is given.  
**Flammability** : 0 - Minimal Hazard.  
**Physical** : 1 - Slight Hazard.

### Party Responsible for the Preparation of This Document

AFCO  
550 Development Avenue  
Chambersburg, PA 17201  
T: 800-345-1329

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS SDS 2015 (U.S., Can., Mex.)