

Safety Data Sheet

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

Revision date: 01/15/2014

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Trade name : BWT-447 BOILER TREATMENT

Product name : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Boiler water treatment

1.3. Details of the supplier of the safety data sheet

 Kriss Premium Products, Inc.
 3400 East 42nd Street
 Minneapolis, MN 55406

1.4. Emergency telephone number

 Emergency number : INFORMATION: 612-722-8485
 CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification
Emergency Overview
2.1. Target Organs:

Respiratory system, eyes, skin

2.2. GHS Classifications:

Acute Toxicity, Oral (4)

Acute Toxicity, Inhalation (4)

Acute Toxicity, Dermal (2)

2.3. GHS Label Elements:
Signal Word – Warning
Pictogram –

2.4. Hazard Statements:
H315 – Causes skin irritation
H319 – Causes serious eye irritation
2.5. Precautionary Statements:
P261 – Avoid breathing dust/fume/gas/mist/vapors/spray
P264 – Wash exposed skin thoroughly after handling
P280 – Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 – IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 – If skin irritation occurs: Get medical advice/attention
P337+P313 – If eye irritation persists: Get medical advice/attention
P362 – Take off contaminated clothing and wash before reuse
2.6. Other Hazards:

None

2.7. HMIS Classification:
Health Hazard – 1
Flammability – 0
Reactivity - 1
2.8. Potential Health Effects:
Inhalation – Irritant
Eye – Irritant
Skin – Irritant
Ingestion – Not likely to occur
2.9. Medical conditions aggravated by long-term exposure - Capable of provoking bronchospasm in sulfite-sensitive individuals with asthma.
SECTION 3: Composition/information on ingredients
3.1. Composition
CAS Number
%wt or vol

Sodium Sulfite

007757-83-7

100% (wt)

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SECTION 4: First Aid Measures

4.1. First-aid measures

Exposure Route	Symptoms	Treatment
Inhalation:	Sore throat, shortness of breath, coughing, and congestion.	Remove from exposure to fresh air. Seek Medical attention in severe cases or if recovery is not rapid.
Eye Contact:	Irritation to eyes and mucous membranes.	Irrigate with water until no evidence of chemical remains. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact:	Irritation, itching, dermatitis	Wash with soap and drench with water. Remove contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.
Ingestion	Irritation to mucous membranes.	Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

After first aid, get appropriate medical attention.

Note to physician: Exposure may aggravate acute or chronic asthma, emphysema and bronchitis.

Special Precautions/Procedures: None indicated.

SECTION 5: Fire-Fighting Measures

5.1. Flash Point:	Not combustible.
5.2. Flash Point Method:	Not Applicable.
5.3. Burning Rate:	Not Applicable.
5.4. Autoignition Temperature:	Not Applicable.
5.5. LEL:	Not Applicable.
5.6. UEL:	Not Applicable.
5.7. Flammability Classification:	Not flammable.
5.8. Extinguishing Media:	Use extinguishing agent appropriate for surrounding fire conditions.
5.9. Unusual Fire or Explosion Hazards:	None indicated.
5.10. Fire-Fighting Instructions:	Do not release runoff from fire control methods to sewers or waterways.
5.11. Fire-Fighting Equipment:	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Spill/ Leak Procedures:

Wear appropriate PPE – See Section 8

6.2. Methods and material for containment and cleaning up:

On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.3. Containment:

For large spills, dike ahead of contaminated runoff for later disposal.

SECTION 7: Handling and Storage

7.1. Handling Precautions:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

7.2. Storage Requirements:

Avoid heat or moisture. Store in areas, away from heat and moisture and protected from physical damage. Segregate from acids and oxidizers.

SECTION 8: Exposure Controls/ Personal Protection

Composition	CAS Number	TWA	STEL	IDLH
Sodium Sulfite	007757-83-7	*	*	*
*None established. Control as nuisance dust.				

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- 8.1. **Ventilation:** Provide general and local exhaust ventilation.
8.2. **Eye Protection:** Chemical goggles or safety glasses.
8.3. **Respiratory Protection:** Wear appropriate mask.
8.4. **Protective Clothing/Equipment:** Wear suitable protective clothing. Avoid all unnecessary exposure.



- 8.5. **Safety Stations:** Make emergency eyewash stations, showers, and washing facilities available in the work area.
8.6. **Contaminated Equipment:** Remove this material from personal protective equipment as needed
8.7. **Comments:** Do not eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before food or beverage consumption.

SECTION 9: Physical and chemical properties

Physical State:	Crystal or Powder	Water Solubility:	21% @ 68°F
Appearance:	White	Other Solubilities:	Soluble in Glycerine
Odor Threshold:	Odorless	Boiling Point:	NA
Vapor Pressure:	NA	Freezing Point:	NA
Vapor Density (Air=1)	NA	Melting Point:	> 500 °C
Formula Weight:	126.04	Evaporation Rate:	NA
Density:	2.63 g/cm ³	pH:	9 – 10 (1% solution)
Specific Gravity (H2O):		% Volatile:	NA

SECTION 10: Stability and Reactivity

- 10.1. **Stability :** Stable under normal conditions.
10.2. **Polymerization :** Hazardous polymerization will not occur.
10.3. **Chemical incompatibilities :** Strong Acids. Strong oxidizers.
10.4. **Conditions to Avoid :** Air contact. Heat. Moisture. Incompatible materials.
10.5. **Hazardous Decomposition Products :** Sodium oxide. Sulfur compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects:

Acute toxicity	: Not classified.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.

11.2. **Acute Inhalation Effects (rat):** LC50 > 5.5 mg/L/4h

11.3. **Acute Oral Effects (rat):** LD50 = 2610 mg/kg.

11.4. **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis, and sensitization reactions.

SECTION 12: Ecological Information

- 12.1. **Ecotoxicity:** Sodium Sulfite is non hazardous in solution and is commonly used as a waste water dechlorinating agent. High concentrations will contribute to elevated chemical oxygen demand in aquatic environments.
12.2. **Environmental Transport:** Soluble in water.
12.3. **Environmental Degradation:** Rapid biological decomposition
12.4. **Soil Absorption/ Mobility:** Slight
12.5. **96 hour LC50 (fish):** 460 mg/L

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SECTION 13: Disposal Considerations

- 13.1. **Disposal :** Waste determinations typically consider sodium sulfite contaminated materials to be non-hazardous.
- 13.2. **Disposal Regulatory Requirements :** Follow applicable Federal, state and local regulations.
- 13.3. **Container Cleaning and Disposal :** Follow applicable Federal, state and local regulations.

SECTION 14: Transport information

DOT TRANSPORTATION DATA (49 CFR 172.101):

Shipping Name: Non-Regulated Material

Shipping Symbols: N/A

Hazard Class: N/A

Subsidiary Hazard: N/A

ID No.: N/A

Packing Group: N/A

Label: GHS label requirements

Special Provisions: None indicated

SECTION 15: Regulatory Information

15.1 EPA REGULATIONS:

RCRA Hazardous Waste Classification (40 CFR 261): Not listed.

RCRA Hazardous Waste Number (40 CFR 261): Not listed.

CERCLA Hazardous Substance (40 CFR 302.4): Not listed.

CERCLA Reportable Quantity (RQ): NA

SARA Title III: Not listed.

FIFRA: Not regulated.

TSCA: All components listed.

15.2. OSHA Regulations:

Air Contaminant (29 CFR 1910.1000): Not listed.

OSHA Specifically Regulated Substance: Not listed.

15.3. Other Regulations:

FDA (GRAS): Regulated when used as a food preservative.

WHMIS Classification (Canada): D2B

SECTION 16: Other information, including date of preparation or last revision

Indication of changes : Revision 1.0 – 20 Jan 2014 - New SDS Created.

Other information : Author. SRO.

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is 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.



HMIS III Rating

Health : 1

Flammability : 0

Physical : 1

Personal Protection :

We believe that the information contained on this Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily adequate in every circumstance. These suggestions should not be confused with or followed in violation of applicable laws, regulations, rules or insurance requirements. The seller makes no warranty expressed or implied concerning the accuracy or any results obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.