

Material Safety Data Sheet

(WAM B-104)



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INFOTRAC: 800-535-5053
Product Number: WBWT1BA-SF
Control Number:

**PO Box 1700
Snohomish, WA USA 98291**

**Emergency Phone Number:
(800) 535-5053**

SECTION I - IDENTIFICATION

Product Name: WAM B-104
Synonyms: Oxygen Scavenger; Boiler Water Treatment
Chemical Family: Inorganic sodium compound
Formula: Proprietary
Product Description: Boiler Water Treatment

SECTION II - HAZARDOUS INGREDIENTS

Hazardous Ingredient	Percent	CAS Number	PEL
Sodium Sulfite	>99%	7757-83-7	2 mg/m ³ (SO ₂)

SECTION III - PHYSICAL/CHEMICAL DATA

Form: Powder
Color: White to Tan
Odor: No appreciable odor
Boiling Point: Not applicable
Freeze Point: Not applicable
Melting Point: Decomposes at 1112°F
Vapor Pressure: No data available
Vapor Density (Air=1): Not established
Specific Gravity: 1.57
Density lb./gal (kg/L): 13.1 (1.57)
pH(neat): Not Applicable
pH(1% solution): 9.7 to 10.7
Solubility in Water: 27 gram sodium sulfite in 100 gram water (68°F)
Evaporation Rate: Not applicable

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Volatility including Water: Not applicable
Molecular Weight: No data available

SECTION IV – FIRE AND EXPLOSION DATA

Flashpoint: Non combustible
Autoignition: Neither flammable nor explosive
Flammable Limits: Not flammable
Lower Flammability Limit (In Air, %):.....None
Upper Flammability Limit (In Air, %):None
Explosion Limits: Neither reactive nor explosive
Lower Explosion Limit (In Air, %):Neither reactive nor explosive
Upper Explosion Limit (In Air, %):Neither reactive nor explosive
Extinguishing Media: Non combustible. Employ extinguishing media appropriate to surrounding materials.
Hazardous Combustion Products: Generates hazardous sulfur dioxide during decomposition.
Special Fire Fighting Procedures: Wear NIOSH-approved self-contained breathing apparatus. Use water spray to keep containers cool and to knock down fumes.
Unusual Fire and Explosion Hazards:Non combustible. Generates hazardous sulfur dioxide during decomposition.

SECTION V – REACTIVITY DATA

Stability: Stable under normal conditions.
Hazardous Polymerization: Hazardous polymerization does not occur.
Incompatibility: Contact with strong oxidizers cause vigorous exothermic reactions.
Contact with acids will release sulfur dioxide.
Hazardous Decomposition Products:Oxides of sulfur. Sulfur dioxide.

SECTION VI – HEALTH DATA

Threshold Limit Value: 2 mg/m³ (SO₂)
OSHA PEL: Nuisance dust should be maintained below a time weighted average of 5 mg/m³.
Listed Carcinogen: This product contains no known or potential carcinogens
Medical Conditions Aggravated by Overexposure:Breathing of dust may aggravate asthma or other pulmonary conditions.
Inhalation: May cause irritation. Sulfite-sensitive individuals may experience a severe allergic reaction.
Ingestion: Oral exposure or swallowing may produce gastrointestinal upset, nausea, or vomiting. Ingestion may be fatal. Sulfite-sensitive individuals may experience a severe allergic reaction.
Eyes: May cause slight irritation.
Skin (Dermal): May cause slight irritation.

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SECTION VII – FIRST AID

Breathing (Inhalation):	Immediate first aid is not likely to be required. If irritation occurs, remove to fresh air. Immediately remove material from eyes, skin and clothing.
Swallowing (Ingestion):	Never give anything by mouth to an unconscious person. Remove any traces of the substance from the patient's mouth. If the patient is conscious and alert, give 8-12 ounces of water and seek medical attention.
Eyes:	Remove contact lenses. Gently flush the eyes and surrounding areas, including under the eyelids, with lukewarm water for 15 minutes. If irritation persists, seek medical attention.
Skin (Dermal):	Remove contaminated clothing. Wipe material from the skin. Rinse the affected area with large amounts of water for 15 minutes. If irritation persists, seek medical attention.

SECTION VIII – EMPLOYEE PROTECTION

Respiratory Protection:	In case of significant or accidental dust emissions, a NIOSH/MSHA approved respirator should be worn. If SO ₂ is present, use a NIOSH-approved air supplied positive pressure or acid gas canister.
Eye Protection:	Wear chemical goggles.
Protective Gloves:	Cotton gloves are adequate for routine handling of the product. For solutions, wear impervious gloves.
Protective Clothing:	Boots, apron, long sleeves.
Ventilation Requirements:	Adequate ventilation must be provided to maintain air concentration below the OSHA PEL.
Work/Hygiene Practices:	An emergency eye wash and safety shower for first aid treatment of potential chemical burns should be available in the vicinity of exposure from any material release. Avoid contact with the skin, and breathing vapor, mists, or dusts. Do not eat, drink or smoke in the work area. Wash hands thoroughly before eating, drinking, smoking, chewing, or using the restroom facility.

SECTION IX – SPILL AND DISPOSAL DATA

Spill:	Shovel back into the original, dry uncontaminated container or waste receptacle. Flush area with water; contain the run-off; dispose waste in accordance with applicable laws and regulations.
Waste Disposal:	Dispose of in accordance with all federal, state, and local environmental laws and regulations.
RCRA Status:	Not listed

SECTION X – TRANSPORTATION DATA

DOT Shipping Name:	Industrial Process Compound, Water Treating, Dry
DOT Hazard Label(s):	None; Not regulated for transport
DOT Hazard Placard(s):	None; Not regulated for transport

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DOT Hazard Class: None; Not regulated for transport
UN/NA Number: None
Packaging Group: N/A
Reportable Quantity: None

SECTION XI – OTHER REGULATORY INFORMATION

TSCA Status: All components listed in TSCA inventory.
SARA Section 302: Reportable quantity of extremely hazardous substance: not listed.
Threshold planning quantity, extremely hazardous substance: not listed.
SARA Section 311: Contains no substances listed as toxic.
SARA Section 312: Contains no substances listed as toxic.
Sara Section 313: Contains the following material which is subject to the reporting requirements of this section: Cobalt compounds CAS# N096
Clean Air Act: Not Listed
FDA: Acceptable for use in food processing plants as determined in 21CFR Section 173.310, Food and Drug.
USDA: Not acceptable for use by USDA in federally inspected meat and poultry plants.
HMIS Health: 2
HMIS Flammability: 0
HMIS Reactivity: 1
HMIS Personal Protection: E

SECTION XII – HANDLING AND STORAGE

Storage Requirements: Keep in a closed, properly labeled container in a dry area away from acids. Protect from damage.
Handling Procedure: Avoid prolonged or repeated contact with the skin or eyes.
Conditions to avoid: High temperatures. Moisture.

SECTION XIII – TOXICOLOGICAL AND ECOLOGICAL INFORMATION

Toxicity: LD50-oral 820 mg/kg species: mouse
Toxicity: Chronic toxicity: Can cause allergic reactions (headaches, difficulty in breathing, rapid heart rate and anaphylaxis) to susceptible individuals after repeated contact.
Aquatic Toxicity Study: 96 hour LC50 goldfish: 100 mg/L
Aquatic Toxicity Study: 24, 48, 96 hour TLM, mosquito fish: 2600 ppm
BOD: Biological Oxygen Demand = 0.12 lb./lb. instantaneous. Sodium sulfite is an oxygen scavenger when introduced to water.
COD: No data available

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SECTION XIV – ADDITIONAL INFORMATION

Additional: The national Science Foundation recommends that the maximum usage level is 22 mg/l for potable water treatment, unless usage is for ozone reduction. The residual sodium sulfite levels shall not exceed 100 ppb in the finished water.

ABBREVIATIONS

ACGIH=American Conference of Governmental Industrial Hygienists

OSHA=Occupational Safety and Health Administration

TLV=Threshold Limit Value

PEL=Permissible Exposure Limit

TWA=Time Weighted Average

STEL=Short-Term Exposure Limit

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