

Material Safety Data Sheet
(WAM B-604)



Date Prepared: September 21, 2004
Revision Date: March 7, 2006
INFOTRAC: 800-535-5053
Product Number: WBWT6NK-SF
Control Number:

PO Box 1700
Snohomish, WA USA 98291

Emergency Phone Number:
(800) 535-5053

SECTION I - IDENTIFICATION

Product Name: WAM B-604
Synonyms: Boiler Water Treatment
Chemical Family: Caustic Alkali
Formula: Proprietary
Product Description: Boiler Treatment

SECTION II - HAZARDOUS INGREDIENTS

Hazardous Ingredient	Percent	CAS Number	PEL
Potassium Hydroxide	>1%	1310-58-3	2 mg/m ³ OSHA ceiling; 2 mg/m ³ ACGIH ceiling
Polyacrylic Acid	>1%	9003-01-4	2 mg/m ³

SECTION III - PHYSICAL/CHEMICAL DATA

Form: Liquid
Color: Dark Amber
Odor: No appreciable odor
Boiling Point: >212 °F
Freeze Point: <32 °F
Melting Point: No data available
Vapor Pressure: No data available
Vapor Density (Air=1): Not established
Specific Gravity: 1.144
Density lb./gal (kg/L): 9.55 (1.14)
pH(neat): > 13
pH(1% solution): 11.6 to 12.6
Solubility in Water: Complete

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Evaporation Rate: No data available
Volatility including Water: Not established
Molecular Weight: Blend, not applicable

SECTION IV – FIRE AND EXPLOSION DATA

Flashpoint: Not flammable.
Autoignition: Not flammable.
Flammable Limits: Not flammable
Lower Flammability Limit (In Air, %):.....None
Upper Flammability Limit (In Air, %):None
Explosion Limits: Neither flammable nor explosive
Lower Explosion Limit (In Air, %):Neither flammable nor explosive
Upper Explosion Limit (In Air, %):Neither flammable nor explosive
Extinguishing Media: Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO2).
Hazardous Combustion Products: None known
Special Fire Fighting Procedures: Not flammable. Cool exposed tanks with water to prevent rupture.
Wear protective clothing including full face protection, rubber gloves, rubber boots and rubber rain gear.
Unusual Fire and Explosion Hazards:Direct contact with water can cause a violent exothermic reaction. It reacts violently with acids or organic halogen compounds, and metals such as zinc, tin, and aluminum giving off highly flammable and explosive hydrogen gas.

SECTION V – REACTIVITY DATA

Stability: Stable under normal conditions.
Hazardous Polymerization: Hazardous polymerization does not occur.
Incompatibility: acids, halogenated compounds, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali-sensitive metals or alloys.
Hazardous Decomposition Products:Sulfur Dioxide

SECTION VI – HEALTH DATA

Threshold Limit Value: 2 mg/m³
OSHA PEL: 2 mg/m³
Listed Carcinogen: This product contains no known or potential carcinogens
Medical Conditions Aggravated by Overexposure:Human Dermal Exposure: regardless of concentrations, the severity of damage and the extent of its irreversibility increases with the length of contact time. Prolonged contact with sodium hydroxide solutions of greater than 1% concentration can cause a high degree of tissue destruction. The latent period, following skin contact during which no sensation of irritation

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occurs, varies from several hours for a 0.4 to 4.0% active solution to 3 minutes for concentrations of 25% or higher.

Inhalation: irritation(possibly severe), chemical burns, pulmonary edema
Ingestion: Causes severe burns to mucous membranes of the mouth, throat, esophagus, and stomach.
Eyes: Causes eye burns
Skin (Dermal): Causes severe burns with deep ulceration.

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): If person is conscious, give large quantities of water to drink. Do not induce vomiting. Call a physician.

Eyes: Immediately flush with copious amounts of water for at least 15 minutes, seek medical attention.

Skin (Dermal): Immediately wash the affected area with soap and water as a precaution. Get medical if skin irritation persists.

Note to Physician: The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage.

SECTION VIII – EMPLOYEE PROTECTION

Respiratory Protection: NIOSH approved respirator
Eye Protection: Chemical goggles, faceshield
Protective Gloves: Neoprene, rubber, or PVC gloves with gauntlets.
Protective Clothing: Neoprene, rubber or PVC boots and rain suit.
Ventilation Requirements: Adequate ventilation must be provided to maintain air concentration below the OSHA PEL.
Work/Hygiene Practices: Emergency eye wash and safety showers for first aid treatment of potential chemical burns should be available in the vicinity of significant exposure from caustic release. Avoid contact with skin and breathing vapor. Do not eat, drink, or smoke in the work area. Wash hands thoroughly after handling, especially before eating, drinking, smoking, chewing, or using restroom facility.

SECTION IX – SPILL AND DISPOSAL DATA

Spill: Stop the source of the leak. Contain the spilled material with dikes, sandbags, and prevent run-off into surface waters or sewers. Clean or recover as much material as possible by using a vacuum or pump. Neutralize any remaining traces of material with any dilute inorganic acid such as hydrochloric, sulfuric, phosphoric, or acetic acid. The spill area should then be flushed with water followed by covering with sodium bicarbonate. Spills on dirt or sandy ground may be handled by removing the affected soils and placing them in approved containers. All clean-up material should be placed in approved containers, labeled

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and stored in a safe place prior to treatment or disposal. Caution: strong alkaline solutions may react violently with acids and water.
Hazardous Waste. Follow Federal and State Regulations.

Waste Disposal:

SECTION X – TRANSPORTATION DATA

DOT Shipping Name: Corrosive Liquids, n.o.s., (Contains Potassium Hydroxide), 8, UN1760, PGII
DOT Hazard Label(s): Corrosive
DOT Hazard Placard(s): Corrosive
DOT Hazard Class: 8
UN/NA Number: UN1760,
Packaging Group: II
Reportable Quantity: NDA

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: Acute: Yes; Chronic: No; Fire: No; Reactive: No; Sudden Release: No
Sara Section 313: Not regulated
Clean Air Act: Not Listed
FDA: Acceptable for use in food processing plants as determined in 21CFR Section 173.310, Food and Drug.
USDA: This product is constructed with materials previously authorized by the USDA for use in federally inspected meat and poultry plants.
HMIS Health: 2
HMIS Flammability: 0
HMIS Reactivity: 0
HMIS Personal Protection: C

SECTION XII – HANDLING AND STORAGE

Storage Requirements: Store in closed, properly labeled tanks or containers.
Handling Procedure: Wear the proper personal protection equipment. This product may be added slowly to water or acids with dilution and constant stirring to avoid a violent exothermic reaction. Full protective clothing should be worn. Avoid contact with aluminum, tin, zinc, and alloys containing these metals. Do not mix with strong acids without dilution and agitation to prevent violent or explosive reaction.
Conditions to avoid: Avoid contact with leather, wool, acids, organic halogen compounds, nitro compounds, or metals such as aluminum, tin or zinc.

SECTION XIII – TOXICOLOGICAL AND ECOLOGICAL INFORMATION

Toxicity: Potassium hydroxide: 356 mg/kg oral-rat LD50

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Aquatic Toxicity Study: Fish Toxicity: This material has exhibited moderate toxicity to aquatic organisms.
BOD: No data available
COD: No data available

SECTION XIV – ADDITIONAL INFORMATION

Additional: This product is NOT listed in Proposition 65, California Safe Drinking Water and Toxic Enforcement Act of 1986.

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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