HarChem

H_2O

Water Services

PO Box 310, Muldrow, OK 74948

SAFETY DATA SHEET

HB-110

SECTION 1: INDENTIFICATION

MANUFACTURER/ DISTRIBUTOR

HarChem Water Services

P.O. Box 310

Muldrow, OK 74948

Emergency Telephone Number:

479-434-0618 24 hours everyday

918-427-0777

Chemtrec 1-(800)-262-8200

RECOMMENDED USES:Boiler Chemical

SECTION 2: HAZARD IDENTIFICATION

Ingredient (s)	CAS#	% (by weight)
Water	7732-18-5	50-60
TKPP	7320-34-5	10-15
Sodium Sulfite	7757-83-7	100.0
Accumer 1000		1-5
Polyoxyalkylene Glycol	9038-95-3	
DEEA	100-37-8	1-5

Pictogram Representation:

HAZARD STATEMENTS: May cause eye and skin irritation. Avoid contact with skin, eyes and clothing. Do not take internally.

HAZARD CLASSIFICATION:

Acute Oral Toxicity: Category I

Acute Inhalation Toxicity: Category III

Skin Irritation: Category III

Eye Irritation: Category II

SIGNAL WORD(IF APPLICABLE): Irritant, Oxidizer

POTENTIAL HEALTH EFFECTS: EYES: Can cause transient irritation.

POTENTIAL HEALTH EFFECTS: SKIN: Can cause transient irritation. Can cause allergic contact dermatitis in susceptible individuals

POTENTIAL HEALTH EFFECTS: INGESTION: Can cause kidney damage. Can be harmful or fatal

POTENTIAL HEALTH EFFECTS: INHALATION: Can cause irritation.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

MOLECULAR FORMULA: N/A
MOLECULAR WEIGHT: N/A
GENERAL USE: Boiler chemical

SECTION 4. FIRST AID MEASURES

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek medical aid.

SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If irritation persists, seek medical attention.

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: N/A

AUTOIGNITION: N/A

EXTINGUISHING MEDIA: N/A

FIRE / EXPLOSION HAZARDS: May evolve NO_x under fire.

FIRE FIGHTING PROCEDURES: Use any means suitable for extinguishing surrounding fire. Use water spray to cool fire exposed containers.

NFPA Hazard Codes: **Health :2** **Fire:0** **Reactivity: 2** **Other: OX**

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Liquid Spills: Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery drums for disposal. Refer to CERCLA in section 14.

Large Liquid Spills: Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERLA in section 14.

SECTION 7: HANDLING AND STORAGE

HANDLING: Respiratory protection is not normally needed since the volatility and toxicity are low. If significant vapors, mist or aerosols are generated, wear a NIOSH approved or equivalent respirator, (ANSI Z 88.2, 1980 for requirements and selection). General ventilation is recommended. Use impermeable gloves and chemical splash googles (ANSI Z 87.1 requirements and selection of gloves, goggles, shoes, etc.) when attaching feeding equipment or doing maintenance. If clothing is contaminated, remove clothing and thoroughly was the affected area. Launder contaminated clothing before reuse.

STORAGE: Keep container closed when not in use. Store in a cool, dry, well ventilated place away from incompatible materials and direct sunlight..

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA'S PERMISSIBLE EXPOSURE LIMITS: OSHA, ACGIH and NIOSH have not developed PEL's for this product.

THRESHOLD LIMIT VALUES: N/A

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY: Respiratory protection is not normally needed since the volatility and toxicity are low. If significant vapors, mist or aerosols are generated wear NIOSH approved or equivalent respirator, (ANSI Z 88.2, 1980 for requirements and selection.)

VENTILATION: General ventilation is recommended

PROTECTIVE CLOTHING: Use impermeable gloves and chemical splash goggles (ANSI Z 87.1 requirements and selection of gloves and goggles, shoes, etc.) when attaching feeding equipment or doing maintenance. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Slightly sweet
APPEARANCE: Blue/ Purple
Form: Liquid
Solubility in Water: Completely
Specific Gravity: 1.13 @ 60° F
pH (Neat): 11.9
Freezing point: 22° F
BOILING POINT: 200°F @ 760 Hg

SECTION 10. STABILITY AND REACTIVITY

Incompatibility: N-nitrosamines, many are cancer causing agents to laboratory animals, may be formed when certain amines are mixed with nitrous acid, oxide concentrations.
Avoid contact with strong acids (e.g. Sulfuric, Phosphoric, nitric, hydrochloric, chromic, and sulfonic) which can generate heat splattering or boiling and the release of toxic fumes.
Thermal Decomposition Products: in the event of combustion CO, CO_2, NO_x, So_x may be formed. So not breathe smoke or fumes. Wear suitable protective equipment.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Studies: Acute toxicity studies have been conducted on this product. The results are shown below.

Acute Oral Toxicity: (Albino Rats) LD50=3,703 mg/kg

95% confidence limit=2,604-5265 mg mg/kg

Acute dermal toxicity (Albino Rabbits): LD50=greater than 3,038 mg/kg

Comments: No pharmacotoxic symptoms were exhibited by the rabbits. Pathological examination showed no gross alterations.

PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):
SKIN IRRITATION TEST INDEX DRAIZE RATING: 6.0/110.0 Mild irritation

COMMENTS; the conjunctiva showed redness throught 72 hours. Afterwards, no redness or swelling was noted. No iridial or corneal involvement was noted. Seven days after exposure no irritation was noted.

CHRONIC TOXICITY RESULTS: Experimental animals studies with sodium nitrite have shown reproductive effects in the of the treated parents. These effects are non-transmissible. Tumorigenic data is equivocal. Mutation studies in bacterial essays have been positive.

SECTION 12. ECOLOGICAL INFORMATION

AQUATIC DATA:

96 hour static acute LC50 to Bluegill Sunfish= Greater than 1,000 ppm

96 hour static acute LC50 to Rainbow Trout= 980-1,100 ppm

TOXICITY RATING: essentially non-toxic

If released into the environment, see CERLA in section 14

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: If product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFT 261, since it does not have the characteristics of Subpart D.

As a non-hazardous liquid waste, it should be solidified before disposal to a sanitary landfill. Can be deep well injected in accordance with local, state, and federal

regulations

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

DOT LABELLING REQUIREMENTS: Hazardous substance, liquid, N.O.S.
ORM-E NA 9188

CONTAINS: Sodium Nitrite

SECTION 15: REGULATORY INFORMATION

US Federal Regulation:

OSHA's HAZARD COMMUNICATION RULE, 29 CFR 1910. 1200: Based on our hazard evaluation, the following ingredients in this product are hazardous and the reasons are shown below.

Sodium Nitrite-TWA 1mg/m3 AOGIH/TLV

Sodium Tetraborare-TWA 1mg/m3 AOGIH/TLV

SECTION 16: OTHER INFORMATION

Date of Preparation: 05/25/08

Last Revision: 4-9-2015