

# HarChem

H<sub>2</sub>O

## Water Services

PO Box 310, Muldrow, OK 74948

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### SAFETY DATA SHEET

## HC-021

#### SECTION 1: IDENTIFICATION

##### MANUFACTURER/ DISTRIBUTOR

HarChem Water Services

P.O. Box 310

Muldrow, OK 74948

##### Emergency Telephone Number:

479-806-0266 24 hours everyday

918-427-0777

Chemtec 1-(800)-262-8200

RECOMMENDED USES: Cooling Water Treatment

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#### SECTION 2: HAZARD IDENTIFICATION

<u>Ingredient (s)</u>	<u>CAS#</u>	<u>% (by weight)</u>
Sodium hydroxide	1310-73-2	1-20
Phosphoric Acid	7664-38-2	1-20
Caustic Potash	71769-53-4	1-20
4300 CP	97953-25-28	1-20
TKPO4	7320-34-5	1-20
TT Preventol	29385-43-1	1-20
Water	7732-18-5	1-20

HAZARD STATEMENTS: Causes irritation to skin and eyes. Do not get in eyes, on skin or on clothing.

PICTOGRAM REPRESENTATION:



HAZARD CLASSIFICATION:

Eye Irritation: Category III

Skin Irritation: Category III

Acute Oral Toxicity: Category III

Acute Inhalation Toxicity: Category III

SIGNAL WORD (IF APPLICABLE): Irritant

POTENTIAL HEALTH EFFECTS: EYES: Can cause transient to moderate irritation to the eyes. Wear goggles or face shield when handling.

POTENTIAL HEALTH EFFECTS: SKIN: Can cause moderate irritation to the skin. Avoid contact with skin and clothing.

POTENTIAL HEALTH EFFECTS: INGESTION: Do not take internally.

POTENTIAL HEALTH EFFECTS: INHALATION: Avoid prolonged or repeated breathing of vapor.

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**SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS**

MOLECULAR FORMULA: N/A

MOLECULAR WEIGHT: 39.99711 g/mol

GENERAL USE: Cooling Water Treatment

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**SECTION 4. FIRST AID MEASURES**

EYES: Immediately flush for at least 15 minutes while holding eyelids open. Call a physician at once.

SKIN: Immediately flush with water for at least 15 minutes. For a large splash, flood body under a shower. Call a physician at once.

INGESTION: Do not induce vomiting. Give water. Call a physician.

NOTE TO PHYSICIAN: No specific antidote is known. Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

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**SECTION 5: FIRE-FIGHTING MEASURES**

FLASH POINT: Greater than 230 Degrees F (PMCC)

AUTOIGNITION: N/A

EXTINGUISHING MEDIA: This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use water to cool containers exposed to fire.

FIRE / EXPLOSION HAZARDS: May evolve under fire conditions.

FIRE FIGHTING PROCEDURES: Use water to cool containers exposed to fire.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (800) 732-9876

### **SPILL CONTROL AND RECOVERY:**

Small liquid spills: Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage 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 CERCLA in Section 14.

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

PROTECTIVE EQUIPMENT: Use impermeable gloves and chemical splash goggles (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 wash the affected area. Launder contaminated clothing before reuse.

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

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin

EYE CONTACT: Can cause transient to moderate irritation.

SKIN CONTACT: Can cause moderate irritation.

### **SYMPTOMS OF EXPOSURE:**

ACUTE: Moderate irritation of eyes and/or skin.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not identify any worsening of existing conditions.

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

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

VENTILATION: General ventilation is recommended.

PROTECTIVE EQUIPMENT: Use impermeable gloves and chemical splash goggles (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 wash the affected area. Launder contaminated clothing before reuse.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Yellow  
FORM: Liquid  
ODOR: Mild sweet  
DENSITY: 9.52 lbs/gal.  
SOLUBILITY IN WATER: Completely  
SPECIFIC GRAVITY: 1.41 @ 60 Degrees F ASTM D-1298  
pH (NEAT) = 12 ASTM E-70  
VISCOSITY: 6.4 cps @ 60 Degrees F ASTM D-2983  
FREEZE POINT: 32 Degrees F ASTM D-1177  
MELTING POINT: Greater than 25 Degrees F ASTM D-2117  
FLASH POINT: Greater than 230 Degrees F (PMCC) ASTM D-93

NOTE: These physical properties are typical values for this product.

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## SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITY: Avoid contact with strong acids (eg. 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<sub>2</sub>, NO<sub>x</sub> may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

COMMENTS: Well defined redness and swelling were observed immediately after removal of the occlusive dressing (4-hour contact). Only slight redness persisted 24-hours later. The skin within the application sites of all animals appeared normal within 48-hours. Some yellow staining of the skin was observed at this time (4 of 6 animals).

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):  
EYE IRRITATION INDEX DRAIZE RATING: 15.5/110.0 mildly irritating

COMMENTS: A mild (Grade 1) iritis was observed in three of six rabbits at the one and 24-hour time intervals. Conjunctivitis was noted in all animals within one hour, lessened in degree by 24-hours, and was not apparent by 72-hours. No corneal involvement was observed.

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## SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY STUDIES: Acute toxicity have been conducted on this product. The results are shown below.

ACUTE ORAL TOXCITY (ALBINO RATS)

SKIN IRRITATION INDEX DRAIZE RATING: 3.2/80 moderately irritating

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## SECTION 12. ECOLOGICAL INFORMATION

If released into the environment, see CERCLA in Section 14.

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## SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL: If this 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 CFR 261, since it does not have the characteristics of Subpart C, (i.e. D001 through D017) nor is it listed under Subpart D.

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

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## SECTION 14: TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - ORM-B, N.O.S. NA 1760

CONTAINS- SODIUM HYDROXIDE

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## SECTION 15: REGULATORY INFORMATION

The following regulations apply to this product.

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, the following ingredient in this product is hazardous and the reason is shown below.

Sodium hydroxide - Corrosive, irritant

Sodium hydroxide - TWA 2 mg/m<sup>3</sup> (ceiling) AOGIH/TLV

CERCLA/SUPERFUND, 40 CFR 117, 302:

This product contains sodium hydroxide, a Reportable Quantity (RQ) substance and if 100,000 pounds of product are released, it requires notification to the NATIONAL RESPONSE CENTER, WASHINGTON, D.C. (800) 424-8802.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

XX Immediate (acute) health hazard

-- Delayed (chronic) health hazard

-- Fire hazard

-- Sudden release of pressure hazard

-- Reactive hazard

Under Section 311, submittal of MSDS's or a list of product names to the local emergency planning commission, state emergency response commission and local fire department is required after October 17, 1987 if you have:

-- 10,000 pounds or more of a hazardous substance, or

-- 500 pounds or the threshold planning quantity, whichever is less, of an extremely hazardous substance.

After October 17, 1989, MSDS(s), or a list of product names for all hazardous substances between zero (0) and 10,000 pounds, not previously reported, must be submitted.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):

This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:

If this product becomes a waste, it does not meet the criteria of a hazardous waste.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311):

This product contains the following ingredient(s) covered by the Clean Water Act:

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FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311):

This product contains the following ingredient(s) covered by the Clean Water Act:

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

This product complies with the MSDS and labeling requirements of the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

MICHIGAN CRITICAL MATERIALS:

This product does not contain ingredients listed on the Michigan Critical Materials Register.

STATE RIGHT TO KNOW LAWS:

Regulated in those states using the TLV for sodium hydroxide as a criteria for listing.

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**SECTION 16: OTHER INFORMATION**

Date of Preparation: 05/25/08

Last Revision: 01/13/14