## SECTION 1 - MANUFACTURER INFORMATION

MANUF/DIST : CHEM-POWER MFG DIV/ FOSTER & CO., INC
15 Wing Drive EMERGENCY PHONE.....: 973-267-4100
Cedar Knolls PREPARATION/REVISION DATE: 02/14/02
NJ 07927
PREPARER/CONTACT: Gary Adams, Chemist

LOCATION : Whs 1

TRADE NAME/SYNONYMS...: X-TOL BOILER TREATMENT 18-98
CHEMICAL NAME/SYNONYMS: Boiler Treatment
CHEMICAL FAMILY.....: Alkaline Solution
FORMULA.....: Mixture
PRODUCT CODE.....: 18-98

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)

```
**********************
*                    *
*   HEALTH..... 2    *
*   FLAMMABILITY.. 0 *
*   REACTIVITY.... 1 *
*   PROTECTION.... B *
*                    *
**********************
```

## SECTION 2 - HAZARDOUS INGREDIENTS

THIS PRODUCT CONTAINS HAZARDOUS INGREDIENTS : YES

| CHEMICAL/COMMON NAME | CAS-NUMBER | % | PEL-OSHA | TLV-ACGIH |
|---|---|---|---|---|
| **Caustic Soda (Sodium Hydroxide) | 1310-73-2 | <6 | N/A | 2mg/m3 |
| **Triphosphoric Acid, Pentasodium Salt | 7758-29-4 | <5 | N/A | N/A |
| Tetrasodium EDTA | 64-02-8 | <2 | N/A | N/A |
| Sodium Sulfite (Activated) | 7757-83-7 | <6 | N/A | N/A |
| Sodium Nitrate | 7631-99-4 | **<1** | N/A | N/A |
| Water | 7732-18-5 | >80 | N/A | N/A |

**this ingredient is reportable under EPA SARA Title 111-please check applicable states for addtional regulations.

THIS PRODUCT CONTAINS CARCINOGENS (NTP, IARC, or 0SHA):NO

| CHEMICAL/COMMON NAME | CAS-NUMBER | % | NTP | IARC | OSHA |
|---|---|---|---|---|---|
| N/A | N/A | N/A | N/A | N/A | N/A |

## SECTION 3 - HEALTH HAZARD DATA

HEALTH EFFECTS (Acute And Chronic)-
ACUTE: Corrosive to all body tissues. Causes injuries ranging from irritation of skin to third degree burns if injury is left unattended.

CHRONIC: Primary dryness and irritation to destruction of tissue in prolonged or severe cases.
EYES: Severe irritant; small amount could cause irreversible damage/blindness.
SKIN: Corrosive to skin and mucous membranes. Could cause permanent scars in severe or untreated cases.
INGESTION: If swallowed, can cause severe burns and tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach.
INHALATION: Airborne concentrations of dust, mists, or spray may cause damage to the upper respiratory tract and even to the lung tissue proper which could produce chemical pneumonia and other serious respiratory injuries.

PRIMARY ROUTES OF ENTRY-
Skin contact, eye contact, inhalation of mists are primary routes of entry expected. Ingestion injury is unlikely.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE-
Any non-intact skin would be further aggravated by exposure to solutions of this product. Cuts, burns and abrasions would be typical examples.

EMERGENCY FIRST AID PROCEDURES-
EYES: OBJECT IS TO FLUSH MATERIAL OUT IMMEDIATELY; THEN GET MEDICAL ATTENTION. Flush eyes with large amounts of water for at least 15 minutes, holding lids apaart to ensure flushing of the entire surface. It is extremely important to flush within one minute after the exposure. Get medical attention while or as soon as possible after flushing with water.
SKIN: Wash contaminated areas with plenty of water for 15 minutes. Remove any contaminated clothing and wash before reuse. Seek medical attention at once.
INHALATION: Move to fresh air. Maintain respiration artificially if needed. Get medical attention immediately.
INGESTION: NEVER give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Administer vinegar and water. Seek medical attention immediately.

## SECTION 4 - CHEMICAL DATA

BOILING POINT (F)....: 212 SPECIFIC GRAVITY (WATER=l).....: 1.1
VAPOR PRESSURE (mmHg): 25-30 PERCENT VOLATILE BY VOLUME (%).....: 80
VAPOR DENSITY (AIR=l): "1 EVAPORATION RATE (water =l): 1

SOLUBILITY IN WATER-
100% pH=>13.4

APPEARANCE AND ODOR INFORMATION-
Colorless, odorless liquid.

## SECTION 5 - PHYSICAL HAZARD DATA

FLASH POINT (Method Used): None. FLAMMABLE LIMITS : Lel=N/A UEL=N/A

EXTINGUISHING MEDIA-
Not combustible.

SPECIAL FIRE FIGHTING PROCEDURES-
Self-contained breathing apparatus for enclosed area. Keep containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS-
Will react violently with strong acid producing steam and some Sulfur Dioxide.

INCOMPATIBILITY (Materials To Avoid)-
Acids, peroxides, strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS-
In a fire could produce toxic oxides of Phosphorous, Sulfur, and Nitrogen.

WILL HAZARDOUS POLYMERIZATION OCCUR-
No.

CONDITIONS TO AVOID FOR POLYMERIZATION-
None known.

IS THE PRODUCT STABLE-
Yes.

CONDITIONS TO AVOID FOR STABILITY-
Acids, oxidizing agents.

## SECTION 6 – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED-
Wear protective clothing. Dike and contain spill. If possible, neutralize with vinegar, citric acid, etc. Absorb with suitable absorbent and place in containers for disposal.

WASTE DISPOSAL METHODS-
Check with Federal, State and local authorities. Probably not a hazardous waste when neutralized to pH below 9.

## SECTION 7 – EXPOSURE CONTROL INFORMATION

VENTILATION-
LOCAL EXHAUST: N/A
MECHANICAL (General): Yes
SPECIAL.....: N/A
OTHER.....: Hard Hat

RESPIRATORY PROTECTION-
Not normally needed.

PROTECTIVE GLOVES-
Waterproof.

OTHER PROTECTIVE EQUIPMENT-
Face shield, splashproof goggles. Eyewash, safety shower.

OTHER ENGINEERING CONTROLS-
N/I

WORK PRACTICES-
Never touch face or clothes with gloves contaminated with this product.

HYGIENIC PRACTICES-
Wash hands before using lavatory facilities or eating.

## SECTION 8 – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE-
Keep from freezing. Keep container closed.

MAINTENANCE PRECAUTIONS-
Keep the tops of containers clean. Keep closed when not in use.

OTHER PRECAUTIONS-
DANGER-KEEP OUT OF REACH OF CHILDREN!

ADDITIONAL COMMENTS-
Shipping Name: **Compound,Cleaning,Liquid** (Sodium Hydroxide), Hazard Class 8, NA-1760, Packing Group 11, CORROSIVE label required.
FOR TRANSPORTATION EMERGENCY ONLY, CALL INFOTRAC 1-800-535-5053 24 hr/7 days.
USDA Authorized G6 Classification.