```
______
          Section 1 -- PRODUCT AND COMPANY IDENTIFICATION
                                                     HMIS CODES
PRODUCT NAME
                                                  Health
                                                  Flammability
Reactivity
  8-Way
PRODUCT CODES
                                                  PPI
  68712, 68714, 68716
CHEMICAL FAMILY
  Inorganic Base
USE
  Boiler Water Treatment
MANUFACTURER'S NAME
                                        EMERGENCY TELEPHONE NO.
  The RectorSeal Corporation
                                         Chemtrec 24 Hours
  2601 Spenwick Drive
                                         (800)424-9300 USA
  Houston, Texas 77055 USA
                                         (703)527-3887 International
DATE OF VALIDATION
                                        TECHNICAL SERVICE TELEPHONE NO.
  January 23, 2015
                                         (800)231-3345 or (713)263-8001
DATE OF PREPARATION
  October 10, 2012
______
         Section 2 -- HAZARDS IDENTIFICATION
EMERGENCY OVERVIEW
OSHA Hazards
Corrosive
GHS CLASSIFICATION
Skin corrosion (Category 1A)
Serious eye damage (Category 1)
Acute aquatic toxicity (Category 3)
GHS Label elements, including precautionary statements
Pictogram: Corrosive
Signal Word: Danger
Hazard statement(s)
H314 - Causes severe skin burns and eye damage.
H402 - Harmful to aquatic life.
Precautionary statement(s)
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/ physician.
______
SUMMARY OF ACUTE HAZARDS
  Exposure to human tissue will result in irritation and chemical burns.
ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS
INHALATION
  Extremely corrosive to respiratory system.
EYE CONTACT
  Corrosive, contact causes severe eye burns.
SKIN CONTACT
  Corrosive to skin.
INGESTION
  Poison! Swallowing large quantities can cause death and burns to digestive
system.
SUMMARY OF CHRONIC HAZARDS
     Exposure to human tissue will result in irritation and chemical burns.
```

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin or persons with chemical sensitivity may have increased susceptibility to excessive exposures.

\_\_\_\_\_\_

## Section 3 -- COMPOSITION/INFORMATION ON INGREDIENTS

\_\_\_\_\_\_

INGREDIENT: Sodium Phosphate PERCENTAGE BY WEIGHT: 4.87 CAS NUMBER: 68915-31-1 EC# : 272-808-3

------

INGREDIENT: Sodium Hydroxide PERCENTAGE BY WEIGHT: 15 CAS NUMBER: 1310-73-2

EC# : 215-185-5

\_\_\_\_\_

INGREDIENT: Sodium Nitrite PERCENTAGE BY WEIGHT: 6.78 CAS NUMBER: 1312-76-1

EC# : 215-199-1

\_\_\_\_\_\_

### Section 4 -- FIRST AID MEASURES

.....

If INHALED: If overcome by exposure, remove victim to fresh air

immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action

is essential.

If on SKIN: Flush with large amounts of water. If irritation or burns

occur, seek immediate medical attention.

If in EYES: Flush with large amounts of water for at least 15 minutes.

Get medical attention if irritation persists.

If SWALLOWED: If swallowed, call a physician immediately. Only induce

vomiting at the instruction of a physician. Never give

anything by mouth to an unconscious person.

\_\_\_\_\_

## Section 5 -- FIRE FIGHTING MEASURES

\_\_\_\_\_\_

### EXTINGUSING MEDIA

Use agents suitable for surrounding fires.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10). Dike area as run-off may create additional environmental contamination

UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition forms toxic fumes of sodium oxide. Flammable gas may be produced on contact with metals.

\_\_\_\_\_

#### Section 6 -- ACCIDENTAL RELEASE MEASURES

\_\_\_\_\_\_

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep people away. Wear chemical protective clothing. Stop discharge if possible. Isolate and remove discharged material. Flush and clean area with water.

\_\_\_\_\_\_

# Section 7 -- HANDLING AND STORAGE

\_\_\_\_\_

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use. Store only in polyethylene or glass containers. DO NOT USE METAL CONTAINERS.

OTHER PRECAUTIONS: Do not permit workers to handle without proper training or proper protective equipment. Store in well-sealed containers, which are protected from physical damage. Empty containers may contain residues; treat as if full and observe all product precautions. Do not reuse container. KEEP OUT OF REACH OF CHILDREN.

```
INGREDIENT
                 UNITS
Sodium Phosphate
   ACGIH TLV
                  N/D
   OSHA PEL
                  N/D
Sodium Hydroxide
   ACGIH TLV CL 2 mg/m3
   OSHA PEL CL 2 mg/m3
_____
Sodium Nitrite
                 N/D
   ACGIH TLV
   OSHA PEL N/D
RESPIRATORY PROTECTION (SPECIFY TYPE): In confined, poorly ventilated areas,
use NIOSH/MSHA approved self-contained breathing apparatus. None required for
normal use in adequately ventilated areas where TLV is not exceeded.
VENTILATION - LOCAL EXHAUST: Acceptable
SPECIAL: Explosion proof
MECHANICAL (GENERAL): Preferable
OTHER: N/A
PROTECTIVE GLOVES: Rubber or neoprene
EYE PROTECTION: Chemical splash goggles (ANSI Z-87.1 or equivalent)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls recommended.
WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed
  areas thoroughly before eating, drinking, smoking, or leaving work area.
  Launder contaminated clothing before reuse.
______
        Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES
BOILING POINT:
                               >212 F (>100 C) @ 760mm Hg
SPECIFIC GRAVITY (H20 = 1):
                               1.09
VAPOR PRESSURE (mm Hg):
                               1 @ 77 F (20 C)
MELTING POINT:
                               N/A
VAPOR DENSITY (AIR = 1):
                               >1
EVAPORATION RATE (ETHYL ACETATE = 1): <1
                               Dark Blue or Purple/ Slight Odor
APPEARANCE/ODOR:
SOLUBILITY IN WATER:
                               Soluble
                               None
FLASH POINT:
LOWER EXPLOSION LIMIT:
                               N/D
UPPER EXPLOSION LIMIT:
                               N/D
VOLATILE ORGANIC COMPOUNDS(VOC)Content
(Theoretical Percentage By Weight):
                               0% or (0 g/L)
______
        Section 10 -- STABILITY AND REACTIVITY
______
STABILITY: Stable
CONDITIONS TO AVOID: Heat, sparks, open flames.
INCOMPATIBILITY (MATERIALS TO AVOID): Acids, flammable liquids, organics,
halogens, metals, nitromethane. When wet, attacks chemically active metals such
as aluminum, tin, lead, and zinc to produce flammable hydrogen gas.
HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition forms toxic fumes of sodium
oxide.
HAZARDOUS POLYMERIZATION: Will not occur.
______
        Section 11 -- TOXICOLOGY INFORMATION
CHRONIC HEALTH HAZARDS
  No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.
TOXICOLOGY DATA
Ingredient Name
------
```

Sodium Phosphate

```
Oral-Rabbit, adult LD50: 3053 mg/kg
             Inhalation-Rat
                         LC50: N/D
  Sodium Hydroxide
            Oral-Rabbit, adult LDLo: 500 mg/kg
            Inhalation-Rat
                        LC50: N/D
  Sodium Nitrite
            Oral-Rabbit, adult LD50: 85 mg/kg
            Inhalation-Rat
                          LC50: 5500 mg/m3
______
       Section 12 -- Ecological Information
         ECOLOGICAL DATA
Ingredient Name
______
  Sodium Phosphate
            Food Chain Concentration Potential
                                         N/D
            WATERFOWL TOXICITY
                                         N/D
                                         N/D
            AQUATIC TOXICITY
                                         N/D
  Sodium Hydroxide
             Food Chain Concentration Potential
                                         None
            WATERFOWL TOXICITY
                                         N/D
            BOD
                                         None
            AQUATIC TOXICITY
                              125 ppm/96 hr/mosquito fish/TLm
  Sodium Nitrite
            Food Chain Concentration Potential
                                         None
            WATERFOWL TOXICITY
                                         N/A
            BOD
                                         N/A
                                   17.1 ppm/24 hr/minnow
            AQUATIC TOXICITY
______
       Section 13 -- DISPOSAL CONSIDERATIONS
 ______
Waste Classification: Corrosive(D002)
Disposal Method:
                Neutralization
RCRA classified hazardous waste. Dispose of absorbed materials and liquid
waste in accordance with all local, state and federal regulations.
______
       Section 14 -- TRANSPORTATION INFORMATION
 _____
DOT: UN3266, Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide &
 sodium nitrite), Class 8, PG III, ERG#154
 Gallons and less: Consumer Commodity, ORM-D
OCEAN (IMDG): Gallons and less: UN3266, Corrosive liquid, basic, inorganic, n.o.s.
sodium hydroxide & sodium nitrite), Class 8, PG III, Limited Quantity or (LTD-QTY)
EMS-No: F-A, S-B
AIR (IATA): UN3266, Corrosive liquid, basic, inorganic, n.o.s. (sodium
 hydroxide & sodium nitrite), Class 8, PG III, ERG#154
______
       Section 15 -- REGULATORY INFORMATION
   ______
REGULATORY DATA
Ingredient Name
 -----
  Sodium Phosphate
            SARA 313
                         No
            TSCA Inventory
                         Yes
            CERCLA RO
                         N/A
            RCRA Code
                         N/A
  Sodium Hydroxide
            SARA 313
                         Nο
            TSCA Inventory
                         Yes
            CERCLA RQ
                         1000 lb.
            RCRA Code
                         N/A
  Sodium Nitrite
```

SARA 313 Yes
TSCA Inventory Yes
CERCLA RQ 100 lb.
RCRA Code N/A

\_\_\_\_\_\_

Section 16 -- OTHER INFORMATION

\_\_\_\_\_\_

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001