



# SAFETY DATA SHEET

## 8-WAY™

Water treatment for both steam and hot water systems

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name

8-Way™

Product Codes

68712, 68714, 68716

Chemical Family

Inorganic base

Use

Boiler water treatment

Manufacturer's Name

The RectorSeal Corporation

2601 Spenwick Drive

Houston, Texas 77055 USA

Date of Validation

January 12, 2017

Date of Preparation

January 12, 2017

HMIS Codes

Health 3

Flammability 0

Reactivity 1

PPI B

Emergency Telephone No.

Chemtrec 24 Hours

(800)-424-9300 USA

(703)-527-3887 International

Technical Service Telephone No.

(800)-231-3345 or (713)-263-8001

### 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



GHS05: 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

**Extinguishing 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.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Units
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**Sodium Phosphate**

ACGIH TLV: N/D

OSHA PEL: N/D

**Sodium Hydroxide**ACGIH TLV: CL 2 mg/m<sup>3</sup>OSHA PEL: CL 2 mg/m<sup>3</sup>**Sodium Nitrite**

ACGIH TLV: N/D

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 (H <sub>2</sub> O = 1):	1.09
Vapor pressure (mmHg):	1 @ 77°F (20°C)
Melting point:	N/A
Vapor Density (Air = 1):	> 1
Evaporation rate (Ethyl Acetate = 1):	< 1
Appearance/Odor:	Dark blue or purple/Slight odor
Solubility in water:	Soluble
Volatile Organic Compounds (VOC) Content (theoretical percentage by weight):	0% or (0 g/L)
Flash point:	None
Lower explosion limit:	N/D
Upper explosion limit:	N/D

## 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 Lister 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/m<sup>3</sup>

## SECTION 12 – ECOLOGICAL INFORMATION

**Ecological Data**

Ingredient Name:	<b>Sodium Phosphate</b>
Food Chain Concentration Potential:	N/D
Waterfowl Toxicity:	N/D
BOD:	N/D
Aquatic Toxicity:	N/D

**Ecological Data (cont.)**

Ingredient Name:	<b>Sodium Hydroxide</b>
Food Chain Concentration Potential:	None
Waterfowl Toxicity:	N/D
BOD:	None
Aquatic Toxicity:	125 ppm/96 hr/mosquito fish/TLm

Ingredient Name:	<b>Sodium Nitrite</b>
Food Chain Concentration Potential:	None
Waterfowl Toxicity:	N/A
BOD:	N/A
Aquatic Toxicity:	17.1 ppm/24 hr/minnow

## 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: Limited Quantity or (LTD-QTY)
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:	<b>Sodium Phosphate</b>
SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

**Regulatory Data (cont.)**

Ingredient Name: **Sodium Hydroxide**

SARA 313: No

TSCA Inventory Yes

CERCLA RQ 1000 lb.

RCRA Code N/A

Ingredient Name: **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