

## MATERIAL SAFETY DATA SHEET

MSDS 0262

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 Section 1 -- PRODUCT AND COMPANY IDENTIFICATION  
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	HMIS CODES
PRODUCT NAME	Health 3
8-Way	Flammability 0
	Reactivity 1
PRODUCT CODES	PPI D
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.
October 10, 2012	(800)231-3345 or (713)263-8001
DATE OF PREPARATION	
October 10, 2012	

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 Section 2 -- HAZARDS IDENTIFICATION  
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## EMERGENCY OVERVIEW

OSHA Hazards

Corrosive

## GHS CLASSIFICATION

Skin corrosion (Category 1A)

Serious eye damage (Category 1)

Acute aquatic toxicity (Category 3)

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 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.

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 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.

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 Section 7 -- HANDLING AND STORAGE  
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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.

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 Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION  
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INGREDIENT	UNITS
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Sodium Phosphate	
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ACGIH TLV	N/D
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OSHA PEL	N/D
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 Sodium Hydroxide

ACGIH TLV	CL 2 mg/m3
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OSHA PEL	CL 2 mg/m3
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 Sodium Nitrite

ACGIH TLV	N/D
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OSHA PEL	N/D
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 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.

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 Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES  
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BOILING POINT:	>212 F (>100 C) @ 760mm Hg
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SPECIFIC GRAVITY (H2O = 1):	1.09
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VAPOR PRESSURE (mm Hg):	1 @ 77 F (20 C)
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MELTING POINT:	N/A
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VAPOR DENSITY (AIR = 1):	>1
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EVAPORATION RATE (ETHYL ACETATE = 1):	<1
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APPEARANCE/ODOR:	Dark Blue or Purple/ Slight Odor
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SOLUBILITY IN WATER:	Soluble
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FLASH POINT:	None
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LOWER EXPLOSION LIMIT:	N/D
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UPPER EXPLOSION LIMIT:	N/D
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VOLATILE ORGANIC COMPOUNDS (VOC) Content	
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(Theoretical Percentage By Weight):	0% or (0 g/L)
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 Section 10 -- STABILITY AND REACTIVITY  
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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.

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 Section 11 -- TOXICOLOGY INFORMATION  
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## CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

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## TOXICOLOGY DATA

 Ingredient Name  
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## 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
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 Section 12 -- Ecological Information  
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## ECOLOGICAL DATA

 Ingredient Name  
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## Sodium Phosphate

Food Chain Concentration Potential N/D

WATERFOWL TOXICITY N/D

BOD 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

AQUATIC TOXICITY 17.1 ppm/24 hr/minnow
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 Section 13 -- DISPOSAL CONSIDERATIONS  
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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.

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 Section 14 -- TRANSPORTATION INFORMATION  
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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

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 Section 15 -- REGULATORY INFORMATION  
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## REGULATORY DATA

 Ingredient Name  
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## Sodium Phosphate

SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

## Sodium Hydroxide

SARA 313	No
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

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 Section 16 -- OTHER INFORMATION  
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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