

MSDS Number – Z0454

Manufacturers Product Name: 8 – Way Boiler Water Treatment

Sid Harvey Item number – 68712 and 68716

## MATERIAL SAFETY DATA SHEET

MSDS 0262

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Section 1 -- PRODUCT AND COMPANY IDENTIFICATION  
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PRODUCT NAME	8-Way	HMS CODES	Health	3
			Flammability	0
			Reactivity	1
			PPI	D
PRODUCT CODES	68712, 68714, 68716			
CHEMICAL FAMILY	Inorganic Base			
USE	Boiler Water Treatment			
MANUFACTURER'S NAME	The RectorSeal Corporation	EMERGENCY TELEPHONE NO.	Chemtrec 24 Hours	
	2601 Spenwick Drive		(800) 424-9300	
	Houston, Texas 77055 USA			
VALIDATION DATE	February 21, 2006	TECHNICAL SERVICE TELEPHONE NO.	(800) 231-3345	
REVISION DATE	February 21, 2006			

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Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS  
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% by WT	CAS No.	INGREDIENT	UNITS
4.87	68915-31-1	Sodium Phosphate	
		ACGIH TLV	N/D
		OSHA PEL	N/D
3.21	1310-73-2	Sodium Hydroxide	
		ACGIH TLV	CL 2 mg/m3
		OSHA PEL	CL 2 mg/m3
6.78	1312-76-1	Sodium Nitrite	
		ACGIH TLV	N/D
		OSHA PEL	N/D

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Section 3 -- HAZARDS IDENTIFICATION  
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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.

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Section 4 -- FIRST AID MEASURES  
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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.

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Section 5 -- FIRE FIGHTING MEASURES  
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FLASH POINT	LEL	UEL
None	N/A	N/A

## 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.

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Section 6 -- ACCIDENTAL RELEASE MEASURES  
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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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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  
SPECIFIC GRAVITY (H<sub>2</sub>O = 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  
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)

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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  
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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

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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: Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide & sodium nitrite), Class 8, UN3266, PGIII, ERG154  
 OCEAN (IMDG): Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide & sodium nitrite), Class 8, UN3266, PGIII, IMDG#8147-1 EmS#8-15, MFAG#760  
 AIR (IATA): Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide & sodium nitrite), Class 8, UN3266, PGIII  
 WHMIS (CANADA): Class E  
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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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