

## MATERIAL SAFETY DATA SHEET

MSDS 0275

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 Section 1 -- PRODUCT AND COMPANY IDENTIFICATION  
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	HMIS CODES	
PRODUCT NAME	Health	2
Raindrop	Flammability	0
	Reactivity	0
PRODUCT CODES	PPI	B
88444		
CHEMICAL FAMILY		
Organic/Inorganic		
USE		
Evaporator Cooler 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.	
August 30, 2012	(800)231-3345 or (713)263-8001	
DATE OF PREPARATION		
August 30, 2012		

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 Section 2 -- HAZARDS IDENTIFICATION  
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## GHS CLASSIFICATION

PHYSICAL HAZARDS: None

## HEALTH HAZARDS

Acute Toxicity:

Oral: Category 5

Dermal: Not Classified

Inhalation: Not Classified

Skin Corrosion/Irritation: Category 3

Serious Eye Damage/Eye Irritation: Category 1

Respiratory or Skin Sensitization: Not Classified

Germ Cell Mutagenicity: Not Classified

Carcinogenicity: Not Classified

Reproductive Toxicology: Not Classified

Target Organ Systemic Toxicity - Single Exposure: Not Classified

Target Organ Systemic Toxicity - Repeated Exposure: Not Classified

Aspiration Toxicity: Not Classified

## ENVIRONMENTAL HAZARDS

Hazardous to the Aquatic Environment: Not Classified

Acute aquatic toxicity: Not Classified

Chronic aquatic toxicity: Not Classified

Bioaccumulation potential: Not Classified

Rapid degradability: Not Classified

## GHS Label elements, including precautionary statements

Pictogram: N/A

Signal Word: Danger

Hazard Statements:

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Precautionary Statements:

P102 - Keep out of reach of children.

P262 - Do not get in eyes, on skin, or on clothing.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+, P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305+, P351+, P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P362 - Take off contaminated clothing and wash before reuse.

## SUMMARY OF ACUTE HAZARDS

Causes irreversible eye damage and skin irritation.

## ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

## INHALATION

N/A

## EYE CONTACT

Corrosive: Causes irreversible eye damage.

## SKIN CONTACT

Skin irritation.

INGESTION

Phosphates are slowly and incompletely absorbed when ingested, and seldom result in systemic effects. Such effects, however, have occurred. Symptoms may include vomiting, lethargy, diarrhea, blood chemistry effects, heart disturbances and central nervous system effects. The toxicity of phosphates is because of their ability to sequester calcium. Systemic acidosis may result as this material is believed to hydrolyze into phosphoric acid when ingested.

SUMMARY OF CHRONIC HAZARDS

None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May induce severe gastroenteric distress (vomiting, gastroenteric pain, and local corrosion and hemorrhages), prostration, anuria, hematuria, anemia, increase in white blood cells, icterus, coma, respiratory difficulties, and circulatory failure.

Section 3 -- COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY: Organic/Inorganic

INGREDIENT: n-Alkyl (98% C12, 2% C14)-dimethyl  
-1-naphthylmethyl ammonium chloride  
-monohydrate

PERCENTAGE BY WEIGHT: 10

CAS NUMBER: 53516-75-9

EC# : Not listed

INGREDIENT: Sodium Bicarbonate

PERCENTAGE BY WEIGHT: 30

CAS NUMBER: 144-55-8

EC# : 205-633-8

INGREDIENT: Sodium Carbonate

PERCENTAGE BY WEIGHT: 29

CAS NUMBER: 497-19-8

EC# : 207-838-8

INGREDIENT: Urea

PERCENTAGE BY WEIGHT: 29

CAS NUMBER: 57-13-6

EC# : 200-315-5

INGREDIENT: Fragrance

PERCENTAGE BY WEIGHT: 2

CAS NUMBER: Not listed

EC# : Not listed

Section 4 -- FIRST AID MEASURES

- If INHALED: N/A
- If on SKIN: Immediately wash with soap and water. Remove and wash any contaminated clothing.
- If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.
- If SWALLOWED: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

Section 5 -- FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Non-combustible. Use agents appropriate for surrounding fires.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep up excess material to prevent footing hazard. Discard in trash.

Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in dry place.

OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT UNITS  
n-Alkyl (98% C12, 2% C14)-dimethyl

	-1-naphthylmethyl ammonium chloride -monohydrate		
	ACGIH TLV		N/D
	OSHA PEL		N/D
Sodium Bicarbonate			
	ACGIH TLV		N/D
	OSHA PEL		N/D
Sodium Carbonate			
	ACGIH TLV		N/D
	OSHA PEL		N/D
Urea			
	ACGIH TLV		N/D
	OSHA PEL		N/D
Fragrance			
	ACGIH TLV		N/D
	OSHA PEL		N/D

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 RESPIRATORY PROTECTION (SPECIFY TYPE): Normally none required. Use NIOSH/MSHA approved particulate respirator for nuisance dust.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: N/A

MECHANICAL (GENERAL): Acceptable

OTHER: N/A

PROTECTIVE GLOVES: Wear rubber gloves.

EYE PROTECTION: Safety glasses (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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pH: 7-8  
 BOILING POINT: N/A  
 SPECIFIC GRAVITY (H2O = 1): 2.28  
 VAPOR PRESSURE (mm Hg): N/A  
 MELTING POINT: N/D  
 VAPOR DENSITY (AIR = 1): N/A  
 EVAPORATION RATE (ETHYL ACETATE = 1): N/A  
 APPEARANCE/ODOR: Yellow Tablet / Fragrant 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

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 Section 10 -- STABILITY AND REACTIVITY  
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STABILITY: Stable  
 CONDITIONS TO AVOID: None  
 INCOMPATIBILITY (MATERIALS TO AVOID): None known  
 HAZARDOUS DECOMPOSITION PRODUCTS: None known  
 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

-----  
 n-Alkyl (98% C12, 2% C14)-dimethyl  
 -1-naphthylmethyl ammonium chloride  
 -monohydrate

Oral-Rat LD50: >5000 mg/kg estimated  
 Inhalation-Rat LCLo:N/D

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 Section 12 -- Ecological Information  
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ECOLOGICAL DATA

Ingredient Name

-----  
 n-Alkyl (98% C12, 2% C14)-dimethyl  
 -1-naphthylmethyl ammonium chloride  
 -monohydrate

Food Chain Concentration Potential N/D  
 WATERFOWL TOXICITY N/D

BOD N/D  
AQUATIC TOXICITY N/D

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Section 13 -- DISPOSAL CONSIDERATIONS  
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Waste Classification: Non-regulated solid waste  
Disposal Method: Approved landfill  
Waste from this product is not considered hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

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Section 14 -- TRANSPORTATION INFORMATION  
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DOT: Non-Regulated  
OCEAN (IMDG): Non-Regulated  
AIR (IATA): Non-Regulated  
WHMIS (CANADA): Non-Regulated

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Section 15 -- REGULATORY INFORMATION  
-----

REGULATORY DATA  
Ingredient Name

n-Alkyl (98% C12, 2% C14)-dimethyl  
-1-naphthylmethyl ammonium chloride  
-monohydrate

SARA 313 No  
TSCA Inventory Yes  
CERCLA RQ N/A  
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

## MATERIAL SAFETY DATA SHEET

MSDS 0275

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## IDENTIFICATION

		HMIS CODES	
PRODUCT NAME		Health	2
Raindrop		Flammability	0
		Reactivity	0
PRODUCT CODES		PPI	B
88444			
CHEMICAL FAMILY			
Organic/Inorganic			
USE			
Evaporator Cooler Treatment			
MANUFACTURER'S NAME		EMERGENCY TELEPHONE NO.	
The RectorSeal Corporation		Chemtrec 24 Hours	
2601 Spenwick Drive		(800) 424-9300	
Houston, Texas 77055 USA			
DATE OF PREPARATION		TECHNICAL SERVICE TELEPHONE NO.	
August 21, 2002		(800) 231-3345	

## Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS
10	Mixture	n-Alkyl (98% C12, 2% C14)-dimethyl -1-naphylmethyl ammonium chloride -monohydrate	
		ACGIH TLV	N/D
		OSHA PEL	N/D
90	--	Inert Ingredients	
		ACGIH TLV	N/D
		OSHA PEL	N/D

## Section 3 -- HAZARDS IDENTIFICATION

## SUMMARY OF ACUTE HAZARDS

Causes irreversible eye damage and skin irritation.

## ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

## INHALATION

N/A

## EYE CONTACT

Corrosive: Causes irreversible eye damage.

## SKIN CONTACT

Skin irritation.

INGESTION

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Section 4 -- FIRST AID MEASURES

If INHALED: N/A
If on SKIN: Immediately wash with soap and water. Remove and wash any contaminated clothing.
If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.
If SWALLOWED: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT LEL UEL
None N/D N/D

EXTINGUISHING MEDIA

Non-combustible. Use agents appropriate for surrounding fires.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep up excess material to prevent footing hazard. Discard in trash.

Section 7 -- HANDLING AND STORAGE

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## Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

-----  
RESPIRATORY PROTECTION (SPECIFY TYPE): Normally none required. Use NIOSH/MSHA approved particulate respirator for nuisance dust.  
VENTILATION - LOCAL EXHAUST: Acceptable  
SPECIAL: N/A  
MECHANICAL (GENERAL): Acceptable  
OTHER: N/A  
PROTECTIVE GLOVES: Wear rubber gloves.  
EYE PROTECTION: Safety glasses (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

-----  
BOILING POINT: N/A  
SPECIFIC GRAVITY (H2O = 1): 2.28  
VAPOR PRESSURE (mm Hg): N/A  
MELTING POINT: N/D  
VAPOR DENSITY (AIR = 1): N/A  
EVAPORATION RATE (ETHYL ACETATE = 1): N/A  
APPEARANCE/ODOR: Yellow Tablet / Mild Odor  
SOLUBILITY IN WATER: Soluble  
=====

## Section 10 -- STABILITY AND REACTIVITY

-----  
STABILITY: Stable  
CONDITIONS TO AVOID: None  
INCOMPATIBILITY (MATERIALS TO AVOID): None known  
HAZARDOUS DECOMPOSITION PRODUCTS: None known  
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  
-----

n-Alkyl (98% C12, 2% C14)-dimethyl  
-1-naphylmethyl ammonium chloride  
-monohydrate

Oral-Rat LD50:240 mg/kg  
Inhalation-Rat LCLo:N/D  
=====

## Section 12 -- Ecological Information

-----  
ECOLOGICAL DATAIngredient Name  
-----n-Alkyl (98% C12, 2% C14)-dimethyl  
-1-naphylmethyl ammonium chloride  
-monohydrate

Food Chain Concentration Potential	N/D
WATERFOWL TOXICITY	N/D
BOD	N/D
AQUATIC TOXICITY	N/D

## =====

## Section 13 -- DISPOSAL CONSIDERATIONS

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Waste Classification: Non-regulated solid waste

Disposal Method: Approved landfill

Waste from this product is not considered hazardous as defined under the  
Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in  
accordance with Federal, State, and Local regulation regarding pollution.  
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## Section 14 -- TRANSPORTATION INFORMATION

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DOT: Non-Regulated

OCEAN (IMDG): Non-Regulated

AIR (IATA): Non-Regulated

WHMIS (CANADA): Non-Regulated  
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## Section 15 -- REGULATORY INFORMATION

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REGULATORY DATAIngredient Name  
-----n-Alkyl (98% C12, 2% C14)-dimethyl  
-1-naphylmethyl ammonium chloride  
-monohydrate

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

## =====

## Section 16 -- OTHER INFORMATION

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