

MATERIAL SAFETY DATA SHEET

MSDS 0318

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

		HMIS CODES	
PRODUCT NAME	Refresh	Health	2
		Flammability	0
		Reactivity	0
PRODUCT CODES	68112, 68114	PPI	B
CHEMICAL FAMILY	Organic/Inorganic		
USE	Evaporator Cooler Treatment		
MANUFACTURER'S NAME	The RectorSeal Corporation	EMERGENCY TELEPHONE NO.	
	2601 Spenwick Drive	Chemtrec 24 Hours	
	Houston, Texas 77055 USA	(800)424-9300 USA	
		001-527-3887 International	
DATE OF VALIDATION	April 19, 2012	TECHNICAL SERVICE TELEPHONE NO.	
		(800)231-3345 or (713)263-8001	
DATE OF PREPARATION	April 19, 2012		

Section 2 -- HAZARDS IDENTIFICATION

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.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

LABELING SYMBOLS:

N/A

RISK R-PHRASES:

R22 : Harmful if swallowed.

R34 : Causes burns.

SAFETY S-PHRASES:

S2 : Keep out of the reach of children.

S7 : Keep container tightly closed.

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

HMIS CODES

Health	2
Flammability	0
Reactivity	0
PPI	B

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

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.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

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

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-naphthylmethyl ammonium chloride
-monohydrate

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

Section 12 -- Ecological Information

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

Section 13 -- DISPOSAL CONSIDERATIONS

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.

Section 14 -- TRANSPORTATION INFORMATION

DOT:	Non-Regulated
OCEAN (IMDG):	Non-Regulated
AIR (IATA):	Non-Regulated
WHMIS (CANADA):	Non-Regulated

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

=====
Section 16 -- OTHER INFORMATION
=====

LABELING SYMBOLS:

N/A

RISK R-PHRASES:

R22 : Harmful if swallowed.

R34 : Causes burns.

SAFETY S-PHRASES:

S2 : Keep out of the reach of children.

S7 : Keep container tightly closed.

S26 : In case of contact with eyes, rinse immediately with plenty of
water and seek medical advice.

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.

S45 : In case of accident or if you feel unwell, seek medical advice
immediately (show the label where possible).

This document is prepared pursuant to 91/155/EEC ISO 11014-1. The information
herein is given in good faith, but no warranty, expressed or implied is made.
Consult RectorSeal for further information: (713) 263-8001