# MATERIAL SAFETY DATA SHEET - REFRESHTM

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MSDS0318 Ver. No.1 Ver. Date June 22, 2000

# SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME Refresh™

PRODUCT CODES: 68112, 68114 CHEMICAL FAMILY: Inorganic/Organic **USE:** Evaporator Cooler Treatment MANUFACTURER / SUPPLIER

RectorSeal 2601 Spenwick

Houston, Texas 77055 USA

**EMERGENCY TELEPHONE NUMBERS:** 

Chemtrec 24 hours: (800) 424-9300

RectorSeal: (713) 263-8001

NON EMERGENCY TELEPHONE NUMBERS:

Technical Service: (800) 231-3345

## SECTION 2 COMPOSITION | INFORMATION ON INGREDIENTS

010110	APPROX	OOLIA DEL	ACCULTU	OTHER LIMITO	LINEO	MEDA
CAS NO.	.29	OSHA PEL	ACGIH ILV	OTHER LIMITS	HIVIIS	<u>NFPA</u>
Mixture	10%	N/D	N/D	N/D	H2,F0,R0	N/D
<del>=</del> =0	90%	N/D	N/D	N/D	N/D	N/D
		CAS NO. %  Mixture 10%	CAS NO. % OSHA PEL  Mixture 10% N/D	CAS NO. % OSHA PEL ACGIH TLV  Mixture 10% N/D N/D	CAS NO. % OSHA PEL ACGIH TLV OTHER LIMITS  Mixture 10% N/D N/D N/D	CAS NO.         %         OSHA PEL         ACGIH TLV         OTHER LIMITS         HMIS           Mixture         10%         N/D         N/D         N/D         H2,F0,R0

#### SECTION 3 HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS: Causes irreversible eye damage and skin irritation.

PRIMARY ROUTE(\$) **ROUTE OF EXPOSURE** SIGNS AND SYMPTOMS Nn INHALATION: N/A Yes EYE CONTACT: Corrosive: Causes irreversible eye damage. Yes SKIN CONTACT: Skin irritation. May induce severe gastroenteric distress (vomiting, gastroenteric pain, and local corrosion and No INGESTION:

hemorrhages), prostration, anuria, hematuria, anemia, increase in white blood cells, icterus, coma,

respiratory difficulties, and circulatory failure.

SUMMARY OF CHRONIC HAZARDS: None known.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Individuals with pre-existing or chronic diseases of the eyes and skin.

## SECTION 4 FIRST AID MEASURES

INHALATION:

**EYE CONTACT:** 

N/A

SKIN CONTACT: INGESTION:

Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

Wash with plenty of soap and water. Remove contaminated clothing. If irritation occurs, seek medical attention. 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.

Note to Physicians:

Probable mucosal damage may contraindicate use of gastric lavage. Measure against circulatory shock,

respiratory depression and convulsion may be needed.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT: Non-Combustible FLAMMABILITY LIMITS: LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fires.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece breathing apparatus and other protective clothing. Dike area as runoff may create environmental contamination.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing during cleanup.

### SECTION 7 STORAGE AND HANDLING

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not get in eyes or on skin or on clothing.

OTHER PRECAUTIONS: Empty packages may contain residues; treat as if full and observe all products precautions. Do not reuse empty packages. KEEP OUT OF REACH OF CHILDREN.

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SECTION 8 EXPOSURE CONTROLS PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): Normally none required.

VENTILATION - LOCAL EXHAUST: Acceptable

MECHANICAL (GENERAL): Acceptable

SPECIAL: N/A OTHER: N/A

PROTECTIVE GLOVES: Wear natural rubber of 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: N/A

VAPOR PRESSURE (mm Hg): <0.01 @ 68°F (20°C)

VAPOR DENSITY (AIR = 1): >1 SOLUBILITY IN WATER: Soluble SPECIFIC GRAVITY (H<sub>0</sub>0 = 1): 2.28

MELTING POINT: N/A

EVAPORATION RATE (ETHYL ACETATE = 1): N/A

APPEARANCE/ODOR: Tablet / Perfumed

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (MATERIALS TO AVOID): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2, and fragmented hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGY INFORMATION

CARCINOGENICITY:

IARC MONOGRAPHS: No

OSHA REGULATED: No

SUBSTANCE

n-Alkyl (98% C<sub>12</sub>, 2% C<sub>14</sub>)-dimethyl -1-naphylmethyl ammonium chloride

-monohydrate

LD50

LC50

Oral-Rat LD50:240 mg/kg

N/A

SECTION 12 ECOLOGICAL INFORMATION **FOOD CHAIN** 

N/D

SUBSTANCE

n-Alkyl (98% C<sub>12</sub>, 2% C<sub>14</sub>)-dimethyl

-1-naphylmethyl ammonium chloride

-monohydrate

**CON POTENTIAL** 

N/D

WATERFOWL TOXICITY

**AQUATIC TOXICITY** 

N/D

BOD

N/D

Major Water Use Threatened:

Recreation, fisheries, potable supply.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of clean up materials and liquid waste in accordance with all local, state and federal regulations.

SECTION 14 TRANSPORTATION INFORMATION

DOT: Non-Regulated

OCEAN (IMDG): Non-Regulated AJR (IATA): Non-Regulated WHMIS (CANADA): Non-Regulated

> SECTION 15 REGULATORY INFORMATION TSCA INVENTORY

SUBSTANCE

n-Alkyl (98% C<sub>12</sub>, 2% C<sub>14</sub>)-dimethyl -1-naphylmethyl ammonium chloride -monohydrate

Yes

**SARA 313** 

No

N/A

CERCLA RQ

N/A

RCRA CODE

SECTION 16 OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazardous Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, express or implied is made. Consult RectorSeal for further information: (713) 263-8001.