

MATERIAL SAFETY DATA SHEET

MSDS 0224

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|---------------------|----------------------------|---------------------------------|---|
| PRODUCT NAME | Renewz | HMIS CODES | |
| | | Health | 3 |
| | | Flammability | 0 |
| | | Reactivity | 1 |
| PRODUCT CODES | 82644, 82646, 82650 | PPI | D |
| CHEMICAL FAMILY: | Inorganic Base | | |
| USE | Condenser Coil Cleaner | | |
| MANUFACTURER'S NAME | The RectorSeal Corporation | EMERGENCY TELEPHONE NO. | |
| | 2601 Spenwick Drive | Chemtrec 24 Hours | |
| | Houston, Texas 77055 USA | (800) 424-9300 | |
| DATE OF PREPARATION | August 14, 2002 | TECHNICAL SERVICE TELEPHONE NO. | |
| | | (800) 231-3345 | |

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

| % by WT | CAS No. | INGREDIENT | UNITS |
|---------|-----------|--------------------|------------|
| 15 | 1310-73-2 | Sodium Hydroxide | |
| | | ACGIH TLV | CL 2 mg/m3 |
| | | OSHA PEL | CL 2 mg/m3 |
| 2 | 1312-76-1 | Potassium Silicate | |
| | | ACGIH TLV | N/D |
| | | OSHA PEL | N/D |

Section 3 -- HAZARDS IDENTIFICATION

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 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

| | | |
|-------------|-----|-----|
| 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.

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

Section 7 -- HANDLING AND STORAGE

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 Renewz without proper training or proper protective equipment. Store in well-sealed containers, which are protected from physical damage. Empty containers may contain residues and vapors; treat as if full and observe all product precautions. Do not reuse container. KEEP OUT OF REACH OF CHILDREN.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------|----------------------------|
| BOILING POINT: | >212 F (>100 C) @ 760mm Hg |
| SPECIFIC GRAVITY (H2O = 1): | 1.2 |
| 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: Clear Yellow Liquid/ Little or No Odor
 SOLUBILITY IN WATER: Soluble

Section 10 -- STABILITY AND REACTIVITY

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.

Section 11 -- TOXICOLOGY INFORMATION

CHRONIC HEALTH HAZARDS

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

TOXICOLOGY DATA

Ingredient Name

Sodium Hydroxide

Oral-Rabbit, adult LDLo:500 mg/kg
 Inhalation-Rat LC50: N/D

Potassium Silicate

Oral-Rabbit, adult LD50: N/D
 Inhalation-Rat LC50: N/D

Section 12 -- Ecological Information

ECOLOGICAL DATA

Ingredient Name

Sodium Hydroxide

| | |
|------------------------------------|---------------------------------|
| Food Chain Concentration Potential | None |
| WATERFOWL TOXICITY | N/D |
| BOD | None |
| AQUATIC TOXICITY | 125 ppm/96 hr/mosquito fish/TLm |

Potassium Silicate

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

Section 13 -- DISPOSAL CONSIDERATIONS

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.

Section 14 -- TRANSPORTATION INFORMATION

DOT: Sodium Hydroxide, Solution, UN 1824, Class 8, PG II, ERG#154
 OCEAN (IMDG): Sodium Hydroxide, Solution, UN 1824, Class 8, PG II, IMDG#8226, EMS#8-06
 AIR (IATA): Sodium Hydroxide, Solution, UN 1824, Class 8, PG II, ERG#154

WHMIS (CANADA): Class E

Section 15 -- REGULATORY INFORMATION

REGULATORY DATA

Ingredient Name

Sodium Hydroxide

| | |
|----------------|----------|
| SARA 313 | No |
| TSCA Inventory | Yes |
| CERCLA RQ | 1000 lb. |
| RCRA Code | N/A |

Potassium Silicate

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

Section 16 -- OTHER INFORMATION

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