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MSDS0224
Ver. No.1
Ver. Date June 22, 2000

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Renewz™
 PRODUCT CODE: 82644, 82646, 82650
 CHEMICAL FAMILY: Inorganic
 USE: Condenser Coil Cleaner
 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

HAZARDOUS COMPONENTS	CAS NO.	APPROX		OSHA PEL	ACGIH TLV	OTHER LIMITS	HMIS	NFPA
		%						
Sodium Hydroxide	1310-73-2	15	Max	CL 2 mg/m ³	CL 2 mg/m ³	N/A	H3,F0,R1	H3,F0,R1
Potassium Silicate	1312-76-1	2		N/D	N/D	N/D	N/D	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	PRIMARY ROUTE(S)
INHALATION:	Extremely corrosive to respiratory system.	Yes
EYE CONTACT:	Corrosive, contact causes severe eye burns.	Yes
SKIN CONTACT:	Corrosive to skin.	Yes
INGESTION:	Extremely corrosive. Swallowing large quantities can cause death.	No

SUMMARY OF CHRONIC HAZARDS: Exposure to human tissue will result in irritation and chemical burns.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

SECTION 4 FIRST AID MEASURES

INHALATION: 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.
EYE CONTACT: Immediately flush with large amounts of water for at least 15 minutes. Get prompt medical attention.
SKIN CONTACT: Flush with large amounts of water. If irritation or burns occur, seek immediate medical attention.
INGESTION: Give large amounts of water. DO NOT induce vomiting. Get prompt medical attention.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT: N/A **FLAMMABILITY LIMITS:** LEL: N/D UEL: N/D
EXTINGUISHING MEDIA: Use agents suitable for surrounding fires.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece breathing apparatus and full body protective clothing. Hazardous decomposition products possible (see Section 10). Evacuate area. Dike area as run-off may create additional environmental contamination.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition forms toxic fumes of sodium oxide.

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 with water, rinse with dilute acetic acid.

SECTION 7 STORAGE AND HANDLING

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 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. **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:** N/A
MECHANICAL (GENERAL): Acceptable **OTHER:** N/A
PROTECTIVE GLOVES: Caustic resistant gloves.
EYE PROTECTION: Face shield and chemical splash goggles (ANSI Z-87.1 or equivalent).
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Caustic resistant body covering recommended. Neoprene soled boots.
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: >212°F (>100°C) @ 760mm Hg
 VAPOR PRESSURE (mm Hg): 1 @ 77°F (20°C)
 VAPOR DENSITY (AIR = 1): > 1
 SOLUBILITY IN WATER: Soluble
 SPECIFIC GRAVITY (H₂O = 1): 1.2485
 MELTING POINT: N/A
 EVAPORATION RATE (ETHYL ACETATE = 1): < 1.0
 APPEARANCE/ODOR: Clear Yellow Liquid/ Little or No Odor

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
 CONDITIONS TO AVOID: N/A
 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

CARCINOGENICITY: NTP: No IARC MONOGRAPHS: No OSHA REGULATED: No

<u>SUBSTANCE</u>	<u>LD50</u>	<u>LC50</u>
Sodium Hydroxide	Oral-Rabbit, adult LDLo:500 mg/kg	N/D
Potassium Silicate	N/D	N/D

SECTION 12 ECOLOGICAL INFORMATION

<u>SUBSTANCE</u>	<u>FOOD CHAIN</u>	<u>WATERFOWL</u>	<u>AQUATIC</u>	
	<u>CON POTENTIAL</u>	<u>TOXICITY</u>	<u>BOD</u>	<u>TOXICITY</u>
Sodium Hydroxide	None	N/A	None	125 ppm/96 hr/mosquito fish/TLm
Potassium Silicate	N/D	N/D	N/D	N/D

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: 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

<u>SUBSTANCE</u>	<u>SARA 313</u>	<u>TSCA INVENTORY</u>	<u>CERCLA RQ</u>	<u>RCRA CODE</u>
Sodium Hydroxide	No	Yes	1,000 lb.	N/A
Potassium Silicate	No	Yes	N/A	N/A

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.