

RENEW

Version Number: 1.1 (LDW4)

Preparation Date: 8/11/16

Release Date: 9/15/16

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Renew

Recommended use: Automatic Dishwasher Detergent

Manufacturer, supplier:
Chemstar Corporation
120 Interstate West Parkway, Suite 100
Lithia Springs, Georgia 30122
Phone: 800-327-0777

Emergency Contact Telephone number: 800-535-5053 – InfoTrac

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	3
Flammability	0
Physical Hazard	0



2. HAZARDS IDENTIFICATION

GHS Classification

Product As Sold

Skin Corrosion: Category 1B
Serious Eye Damage: Category 1
Acute toxicity (Oral): Category 4
Acute toxicity (Dermal): Category 4

Product at use dilution: (0.1 to 0.3 fluid ounces/gallon)

Eye irritation: Category 2B

GHS Label Element

Product as Sold



Hazard Pictograms:

Signal Word: Danger

Hazard Statements

Harmful if swallowed
Causes severe skin burns and eye damage.

Precautionary Statements:

Prevention: Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves, protective clothing, eye protection and face protection.

Response:

Principal routes of exposure: Eye contact, Skin contact, Inhalation, Ingestion.

Skin: Wash contaminated area with soap or mild detergent. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.

Eyes: Check for and remove contact lens. Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation: If symptoms occur move affected person to fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention promptly.

Ingestion: If product is swallowed, do not induce vomiting. If vomiting occurs keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention at once.

Product at use dilution

Signal word: Caution
Hazard Statements: Causes eye irritation
Precautionary Statements: Prevention: Wash skin thoroughly after handling.

Response: If in eyes: Check for and remove contact lens. Immediately flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

EMERGENCY OVERVIEW

DANGER.

Acute Effects of Overexposure:

Skin: Corrosive. May cause skin burns depending on length of contact time. Skin inflammation is characterized by itching, scaling, and reddening.

Eyes: Corrosive on contact. May cause severe and permanent eye injury including blindness.

Inhale: Avoid inhalation of mists. Mists and vapors may be corrosive to the respiratory tract.

Ingest: Harmful or maybe fatal if swallowed. May cause burns to mouth, throat and stomach.

Existing skin diseases may be aggravated by exposure.

Chronic Effects of Overexposure: Repeated or prolonged contact with spray or mist may produce chronic eye and skin irritation, respiratory tract irritation, and mucous membrane damage.

Principal routes of exposure: Eye contact, Skin contact, Inhalation, Ingestion.

Skin: Wash contaminated area with soap or mild detergent. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.

Eyes: Check for and remove contact lens. Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation: If symptoms occur, move affected person to fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention promptly.

Ingestion: If product is swallowed, do not induce vomiting. If vomiting occurs keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention at once.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product as sold

Ingredient(s)	CAS #	Weight %
Potassium Hydroxide	1310-58-3	2 – 3
Tetrapotassium pyrophosphate	7320-34-5	10 - 20

Product at use dilution:

Ingredient(s)	CAS #	Weight %
Potassium Hydroxide	1310-58-3	0.001-0.0024
Tetrapotassium pyrophosphate	7320-34-5	0.007-0.02

4. FIRST AID MEASURES

Product as sold

Eye contact: Check for and remove contact lens. Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact: Wash contaminated area with soap or mild detergent. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.

Inhalation: If symptoms occur, move affected person to fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention promptly.

Ingestion: If product is swallowed, do not induce vomiting. If vomiting occurs keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention at once.

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Product at use dilution

Eye contact: Check for and remove contact lens. Rinse with plenty of water.

5. FIRE-FIGHTING MEASURES

Fire Fighting Procedure: Use water vapor, foam or fog. Firefighters should wear proper protective equipment.

Fire Hazard: N/A

Flash Point (F°, TCC): None

Flammable Limits: LEL: N/A

6. ACCIDENTAL RELEASE MEASURES

Spill Clean Up: Wear appropriate protective equipment (see Section 8). Absorb with an inert material and put spilled material in a appropriate waste disposal. Dispose of in accordance with federal, state, and local requirements.

7. HANDLING AND STORAGE

Product as sold

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Keep container closed. Wash thoroughly after handling.

Storage: Keep container in cool well ventilated area. Keep container tightly closed. Store away from incompatible materials. Keep out of the reach of children.

Product at use dilution:

Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Product as sold

Engineering measures to reduce exposure:

No special ventilation requirements. General room ventilation is adequate.

Personal Protective Equipment

Eyes: Wear chemical splash goggles when handling concentrate.

Hand: Wear impervious chemical resistant gloves when handling this product.

Skin: Wear suitable workplace attire or wear a synthetic apron as necessary to prevent skin contact.

Respiratory: Avoid breathing vapor, mists or sprays.

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
None				

Product at use dilution

Engineering measures to reduce exposure:

No special ventilation requirements. General room ventilation is adequate.

Personal Protective Equipment

Eyes: No special equipment required.

Hand: No special equipment required.

Skin: No special equipment required.

Respiratory: No special equipment required

9. PHYSICAL AND CHEMICAL PROPERTIES

	Product as sold	Product at use dilution
Appearance	Clear brown liquid	clear liquid
Odor	characteristic	none
Upper and lower flammability or explosive limits	not available	not available
Vapor pressure	not available	not available
Odor threshold	not available	not available
Vapor density	not available	not available
pH	13-13.9	8-9
Relative density	1.25-1.3	1.0
Melting point/freezing point	not available	32deg F
Boiling Point deg. F	not available	212
Solubility water	soluble	soluble
Initial boiling point and boiling range	not available	not available
Flash point	not available	not available
Evaporation rate	not available	not available
Auto-ignition temperature	not available	not available
Decomposition temperature	not available	not available
VOC content (%)	<1	<0.01
Viscosity	not available	not available

10. STABILITY AND REACTIVITY

Stability:	Stable
Incompatibility:	Acids, oxidizing materials and some metals such as aluminum. Do not use with any other products.
Polymerization:	Will not occur.
Hazardous Decomposition:	Carbon monoxide, carbon dioxide, hydrogen chloride, chlorine and phosgene gas.

11. TOXICOLOGICAL INFORMATION

Toxicity to animals:	Potassium Hydroxide
Oral (LD50) acute:	365 mg/kg
Dermal (LD50) acute:	>2000 mg/kg Rabbit

12. ECOLOGICAL INFORMATION

Ecological Information:	N/A
Biodegradable/OECD:	N/A

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Liquid wastes are not permitted in landfill. Consult local, state, and federal agencies for proper disposal in your area.
Classification:	Hazardous waste

14. TRANSPORT INFORMATION

Product as sold

DOT Bill of Lading Description: UN1760, CORROSIVE LIQUID N.O.S. (CONTAINS POTASSIUM HYDROXIDE), 8, PG II
DOT Classification: UN1760

Note: DOT classification does not necessarily apply to all sizes. For specific container size exceptions, refer to the Bill of Lading with your shipment.

Product at use dilution Not intended for transport.

15. REGULATORY INFORMATION

SARA 313 toxic chemical notification and release reporting: No product found
Clean Water Act (CWA) regulated substance: No product found
Clean Air Act (CAA) 112 regulated toxic substances: No product found
State Regulations: The following ingredients appear on various State's Right to Know lists and/or California's Proposition 65 list:

Ingredient(s)	CAS #	State List
None		

SARA 311/312 Hazard Categories

Immediate: -
Delayed: -
Fire: -
Reactivity: -
Sudden Release of Pressure: -

Canada

WHMIS Hazard Class:

16. OTHER INFORMATION

Reason for revision: Format conversion
Prepared by: Chemstar Corporation
Additional advice:

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