

Renuzyme Plus

Enzyme Detergent

SECTION 1: Identification of the substance/mixture and company

1.1 Product identifier

Product Code: 0816
Name: Renuzyme Plus

1.2 Product uses

For use in sinks, ultrasonic cleaners and washer-disinfectors (including cart washers)

1.3 Supplier

Manufacturer

Intercon Chemical Company
1100 Central Industrial Drive
Saint Louis, MO 63110
USA

Distributor

Getinge USA Sales, LLC
1 Geoffrey Way
Wayne, NJ 07470
USA

1.4 Emergency telephone number

Information: 1-800-475-9040
Chemtrec: 1-800-423-9400

SECTION 2: Hazards identification (undiluted product)

2.1 Classification of the substance or mixture

Health hazards:	Eye irritant 2
Physical hazards:	Not classified
Environmental hazards:	Not classified

2.2 Label elements

Warning



H319	Causes serious eye irritation
P264	Wash thoroughly after handling
P280	Wear eye protection/face protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contacts, if present and easy to do. Continue rinsing.
P337+P317	If eye irritation persists: Get medical help.

2.3 Other hazards

None identified

SECTION 3: Composition/information on ingredients

Material	CAS Number	Level	Hazards (See section 16)
N,N-dimethyldecylamine N-oxide	2604-79-0	0.1-2.0	H318 Causes serious eye damage H400 Very toxic to aquatic life H411 Toxic to aquatic life with long lasting effects
Sodium mixed C8 amphocarboxylates	Trade secret	0.1-0.3	H318 Causes serious eye damage

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact:	Rinse cautiously with water for several minutes. Remove contacts if present and easy to do. Continue rinsing
Skin contact:	Flush with flowing water for fifteen minutes. If irritation persists, get medical help.
Inhalation:	Removed person to fresh air and keep comfortable for breathing. If irritation occurs, get medical help immediately.
Ingestion:	Rinse mouth. Do NOT induce vomiting.
First aider PPE:	As required to prevent contact. See section 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Eye hazard:	Causes serious eye irritation
Skin hazard:	May cause skin irritation
Respiratory hazard:	May cause respiratory symptoms
Other hazards:	----

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment or attention required additional to section 4.2.

SECTION 5: Fire fighting measures

Flammability hazard: Water based product. Not combustible

5.1 Extinguishing media

No special requirements. As appropriate for the fire.

5.2 Special hazards arising from the substance or mixture

No specific hazards arising from the mixture.

5.3 Advice for firefighters

No special measures arising from the mixture.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Take precautions to avoid contact. Use personal protective equipment as detailed in section 8. Spillage may make floors slippery. Keep the area clear. Observe regulations.

6.2 Environmental precautions

Prevent spills from entering water courses.

6.3 Methods and material for containment and cleaning up

Small quantities mop up.

Large quantities contain and absorb or pump into suitable containers for disposal.

6.4 Reference to other sections

Observe the advice given in sections 8 and 13.

SECTION 7: Handling and storage

Shelf life: 23 months in original sealed containers.

7.1 Precautions for safe handling

Do not mix with other products. Observe good industrial hygiene.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place protected from strong oxidizing agents. Store upright in original containers. Recommended storage temperature 5–25 °C.

7.3 Product uses

For use in sinks, ultrasonic cleaners and washer-disinfectors (including cart washers)

SECTION 8: Exposure control and personal protection

8.1 Control parameters

Workplace exposure limits:

8.2 Exposure controls

These measures are suggested on the basis of general use methods and may not be appropriate to all potential uses of the product. The user is responsible for carrying out a full risk assessment of their specific processes and systems of work.

Eye protection:	Wear chemical resistant safety glasses or goggles
Hand Protection:	Wear nitrile or neoprene gloves. Exact choice of gloves depends on specific risk assessments
Body protection:	As necessary to prevent contact
Respiratory protection:	Use in a well ventilated area. Avoid breathing spray mist. Wear a protective mask if necessary
Other protection:	-
Personal protective equipment:	Exact PPE requirements should be determined from a specific risk assessment of the process being carried out



Environmental protection:	Prevent mixture from entering water courses
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Green liquid
Odor:	Apple
Odor threshold:	NE
pH:	6.5-8
Melting point	NE
Initial boiling point:	100° C
Flash point:	NA
Evaporation rate:	>1
Flammability:	N/A
Explosive limits:	N/A
Vapor pressure:	NE
Vapor density:	NE
Relative density at 20° C	1.051 (typical)
Solubility:	100% water soluble
Partition coefficient:	NE

Auto-ignition temperature	NE
Decomposition temperature	NE
Viscosity:	Water thin

9.2 Other information

No other information available

SECTION 10: Stability and reactivity

10.1 Reactivity

Incompatible with strong oxidizers.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions are expected to occur.

10.4 Conditions to avoid

Extreme temperatures.

10.5 Incompatible materials

Incompatible with strong oxidizers.

10.6 Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Classified as a serious eye irritating product. See section two.
Respiratory or skin sensitization:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT single exposure:	Based on available data, the classification criteria are not met.
STOT repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration toxicity:	Based on available data, the classification criteria are not met.

11.2 Routes of exposure/symptoms

Eye contact:	Will cause serious eye irritation.
Skin contact:	May cause irritation
Inhalation:	May cause irritation
Ingestion:	May cause irritation

SECTION 12: Ecological information

12.1 Toxicity

Not classified as dangerous for the environment. All organic ingredients are biodegradable when well diluted.

12.2 Persistence and degradability

Ingredients are biodegradable

12.3 Bio-accumulative potential

Not expected to bio-accumulate.

12.4 Mobility in soil

This product has high water solubility.

12.5 Results of PBT and vPvB assessment

Not regulated through PBT and vPvB assessment.

12.6 Other adverse effects

No other adverse effects are anticipated.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Process effluent can normally be discharged to foul sewer (subject to consent limits). Dispose of surplus product and packaging via a licensed chemical waste contractor.

Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration where permitted.

SECTION 14: Transport information

14.1 DoT Information

Not regulated

14.2 IATA Information

Not regulated

14.3 IMDG Information

Not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Title 3: Does not contain reportable chemical under sections 302, 304, or 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

CERCLA: Does not contain chemicals in reportable quantities. For more information consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements relating to ingredients (see section 3).

H318	Causes serious eye damage
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Date of issue:
October 21, 2021

This product should be stored, handled and used in accordance with good industrial practice and in conformity with legal regulations. The information in this data sheet is based on the present state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties. It is for users to satisfy themselves of the suitability of this product for their own applications.

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