

Enzymatic Detergent Ultrasonic Cleaning Concentrate

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier used on the label : **Enzymatic Detergent Ultrasonic Cleaning Concentrate, pH Neutral**

Other means of identification : Multi-Enzyme Detergent for Ultrasonic Cleaning of Surgical Instruments
: 2130001, 2130002, 2130005, 2130015, 106-8036, 106-8038, 106-8039, 106-8040

Recommended use of the chemical and restrictions on use:

Product for hospital and professional use only for the cleaning of surgical instruments. Not for home use.

Product dilution information: 0.005% - 0.004%

Name, address, and telephone number of the chemical manufacturer:

BELIMED INC
8351 Palmetto Commerce Parkway, Suite 101
Ladson, SC 29456 USA
Telephone Number for Information : 1-800-451-4118

Emergency telephone number

CHEMTREC : 1-800-424-9300 (24/7, US and Canada)

SECTION 2: HAZARD IDENTIFICATION

Classification of the substance or mixture

Product AS SOLD:

Hazard Class	Hazard Category
SKIN Corrosion/Irritation	: 2
Serious Eye Damage/Eye irritation	: 2B
Skin Sensitization	: 1



Product AT USE DILUTION

Not a hazardous substance or mixture

Signal word, hazard statement(s), symbol(s) and precautionary statement(s)

Signal word : Danger

Hazard Statement(s) : Causes skin irritation.
: May causes serious an allergic skin reaction.
: Causes serious eye damage.

Precautionary Statements : **Prevention**

Enzymatic Detergent Ultrasonic Cleaning Concentrate

Avoid breathing vapors, mist, or spray.

Wash hands thoroughly after handling.

Wear protective gloves, protective clothing, eye protection, and face protection.

Contaminated work clothing should not be allowed out of the workplace.

Use personal protective equipment as required.

: Response

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to remove. Continue rinsing.

If eye irritation persists: Get medical attention.

If skin irritation occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

Product AT USE DILUTION**Precautionary Statements:**

Prevention: Wash hands thoroughly after handling

Response: Get medical advice/ attention if you feel unwell.

Storage: Store in accordance with local regulations.

Storage

: Store in accordance with local, regional, national regulations.

Disposal

: Dispose of contents/container to an approved waste disposal facility.

Hazards not otherwise classified

: Not available.

Percentage of ingredient(s) with unknown toxicity

: None known.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**Product AS SOLD**

The following chemicals are classified as health hazards in accordance with 29 CFR 1910.1200

Chemical Name	CAS Number (Unique Identifier)	Concentration	Classification §1910.1200
Poly(oxy-1,2-ethanediyl) alpha-(2-propylheptyl)-omega.-hydroxy-	160875-66-1	1 – 10 %	Causes serious eye damage,1, H318 Eye Irritant 2A, H319
Sodium Lauryl Sulfate / Sodium Xylene Sulfonate	151-21-3 / 1300-72-7	1 – 10 %	Eye irritation 2A, H319 Skin irritation 2, H315 Chronic hazards to the aquatic environment 3, H412
Monoethanolamine	141-43-5	1 – 4%	Causes severe skin burns and eye damage,1, H314 May cause respiratory irritation, H335

Product AT USE DILUTION

No hazardous ingredients

SECTION 4: FIRST AID MEASURES**Product AS SOLD**

Enzymatic Detergent Ultrasonic Cleaning Concentrate

Description of necessary measures

Emergency and First Aid: Take precautions to ensure your own safety and avoid exposure before assisting others.

Procedures: If medical advice is required, show this safety data sheet to the doctor in attendance.

Inhalation: Avoid breathing mists/vapors/spray. If breathed in, move person into fresh air. If breathing becomes difficult, call a physician.

Skin contact: Do not get in eyes, on skin, or on clothing. If necessary, wear protective gloves, protective clothing, and safety glasses with side shields or safety goggles. Wash with plenty of soap and water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before reuse. If skin irritation or rash occurs, seek medical advice/attention.

Eye contact: Do not get in eyes, on skin, or on clothing. If necessary, wear protective gloves, protective clothing, and safety glasses with side shields or safety goggles. Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Ingestion: Do NOT induce vomiting. Dilution by rinsing the mouth and giving water to drink is generally recommended. Never give anything by mouth to an unconscious person. Contact physician or local poison control center.

Indication of any immediate medical attention and special treatment needed: No specific treatment is known.

Most important symptoms and effects, both acute and delayed

Inhalation: Breathing high vapor concentrations may produce anesthetic effects, nausea, dizziness, and headache.

Skin contact: Temporary irritation of the skin.

Eye contact: Mild-to-moderate irritation of the eyes (redness, watering eyes).

Ingestion: Ingestion may cause irritation of mouth, throat, and digestive tract, diarrhea, and vomiting.

Product AT USE DILUTION

In case of eye contact: Rinse with plenty of water.

In case of skin contact: Rinse with plenty of water.

If swallowed: Rinse mouth. Get medical attention if symptoms occur.

If inhaled: Get medical attention if symptoms occur.

SECTION 5: FIREFIGHTING MEASURES

Product AS SOLD

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Dry chemical, carbon dioxide, water spray, or regular foam

Unsuitable extinguishing media: None

Specific hazards arising from the chemical: Oxides of carbon, oxides of sulfur and oxides of nitrogen

Special protective equipment and precautions for firefighters

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Shut off all ignition sources and apply cooling water to sides of containers that are exposed to flames until well after fire is out. Avoid breathing vapors, keep upwind. Keep unnecessary personnel away.

Enzymatic Detergent Ultrasonic Cleaning Concentrate

SECTION 6: ACCIDENTAL RELEASE MEASURES

Product AS SOLD

Personal precautions, protective equipment, and emergency procedures

Wear skin, eye, and respiratory protection. Stop or reduce any leaks if it is safe to do so. Spills present a slipping hazard. Keep unnecessary personnel away. Ensure clean-up is conducted by trained personnel only. Make sure area is slip-free before re-opening to traffic.

Environmental Precautions

Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up

Contain and absorb with sand or other absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. In case of large spills, dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures:

Refer to protective measures listed in sections 7 and 8.

Environmental precautions: No special environmental precautions required.

Methods and materials for containment and cleaning up: Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7: HANDLING AND STORAGE

Product AS SOLD

Precautions for safe handling

Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use.

Conditions for safe storage, including any incompatibilities

Store away from incompatible substances and avoid extreme temperatures. Keep the containers tightly closed when not in use.

Product AT USE DILUTION

Advice on safe handling:

Wash hands after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). For personal protection see section 8.

Conditions for safe storage: Keep out of reach of children. Store in suitable labeled containers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or

Safety Data Sheet

Enzymatic Detergent Ultrasonic Cleaning Concentrate

employer preparing the safety data sheet, where available.

Product AS SOLD

Hazardous Component(s)	ACGIH	NIOSH/OSHA PEL	AIHA WEEL	OTHER
Monoethanolamine	None	TWA:3ppm, STEL: 6 ppm	None	None
Glycerin	None	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None

Appropriate engineering controls

Provide local exhaust or general dilution ventilation to keep potential exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated.

Individual protection measures

Respiratory: If respiratory protection is required, it must be based on the contamination levels found in the workplace and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA) and must not exceed the working limits of the respirator.

Eye: Splash-proof safety glasses are required to prevent eye contact where splashing of product may occur.

Hand/Body: Chemical-resistant gloves are required where repeated or prolonged skin contact may occur. Protective clothing is required where repeated or prolonged skin contact may occur.

Product AT USE DILUTION

Engineering measures:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment Eye protection: No special protective equipment required.

Hand protection: No special protective equipment required.

Skin protection: No special protective equipment required.

Respiratory protection: No personal respiratory protective equipment normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear, Blue, Liquid
Odor	: Mild odor
Odor threshold	: No data available
pH	: 8.0 – 8.99 (neat)
pH	: 6.0 - 8.6 (1% solution)
Melting point / range	: No data available
Boiling point / range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammable/Explosive limits - lower	: No data available
Flammable/Explosive limits - upper	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Solubility in water	: Completely soluble
Partition coefficient (n-octanol/water)	: No data available
Autoignition temperature	: No data available

Product AT USE DILUTION
Clear, Slight Blue Liquid
 No Odor
 Neutral pH

Safety Data Sheet

Enzymatic Detergent Ultrasonic Cleaning Concentrate

Decomposition temperature	: No data available
Viscosity	: No data available
VOC content	: No data available
Density	: No data available
Relative Density	: Approximately 1.053 (Specific Gravity)

SECTION 10: STABILITY AND REACTIVITY

Reactivity	: This product could react with strong acids.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerization does not occur under normal temperatures and pressures.
Conditions to avoid	: Avoid extremes of temperature.
Incompatible materials	: Strong oxidizers, acids.
Hazardous decomposition products	: Thermal decomposition products may include oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

Product AS SOLD

Acute Toxicity Estimate for product based on ingredients:

LD50, Oral, 4,762 mg/kg

LD50, Dermal, 44,000 mg/kg

LC50, Inhalation, 180,000 PPMV

Irritation or Corrosion: Product Mixture:

No data available on product mixture. Causes serious eye damage. Causes skin irritation.

May cause allergic skin reaction.

Components:

Ethanol, 2-Amino

Species: Rabbit; Result: Causes skin burns, Corrosive; Method: OECD Test Guideline 404

Species: Rabbit; Result: Irreversible effects to the eye, Corrosive Method OECD Test Guideline 405

Symptoms related to:

Eyes: Causes serious eye damage. Symptoms may include irreversible damage, blindness, pain, redness, stinging, swelling, and tearing.

Skin: Causes skin irritation and may cause an allergic skin reaction. Symptoms may include irritation, itching, pain, redness, stinging, or rash.

Chronic Toxicological Effects: Specific target organ toxicity -repeated exposure: no data available.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Germ cell mutagenicity: No information available.

Safety Data Sheet

Enzymatic Detergent Ultrasonic Cleaning Concentrate

Carcinogenicity/Other Information: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP? No IARC Monographs? No OSHA Regulated? No

Product AT USE DILUTION

Eyes: Health injuries are not known or expected under normal use.

Skin: Health injuries are not known or expected under normal use.

Ingestion: Health injuries are not known or expected under normal use.

Inhalation: Health injuries are not known or expected under normal use.

Chronic Exposure: Health injuries are not known or expected under normal use

SECTION 12: ECOLOGICAL INFORMATION

Product AS SOLD

Aquatic Toxicity:

The following toxicity information is available for the hazardous ingredient(s) when used as technical grade.

The product is anticipated to be safe for the environment at concentrations predicted in settings under normal-use conditions. One component, sodium tetraborate pentahydrate, is considered harmful to the aquatic environment when used in high concentrations.

Toxicity to fish:

The product is not anticipated to be toxic to fish. The following data is for the product tested in accordance with EPA-821-R-02-012 (Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms). **The LC₅₀ of this sample is greater than 500 mg/L.** Therefore the sample should not be considered hazardous on the basis of aquatic toxicity per the guidance established in the Polisini & Miller (CDFG 1988) protocol. Per guidance provided in CCR, Title 22, Section 66261.24a.2B.6, samples with an acute 96-hour LC₅₀ value greater than 500 mg/L when measured in soft water with fathead minnows are not identified as toxic hazardous waste to the aquatic environment.

Hazardous substance	Parameter	Value	Exposure Time	Species
Product	LC50	594 mg/L	96 hrs.	Pimephales promelas

Toxicity to aquatic invertebrates:

The product end-use dilutions are not anticipated to be toxic to aquatic invertebrates.

Toxicity to algae:

The product is not anticipated to be toxic to algae.

Persistence and degradability:

The majority of the components of this product are anticipated to be biodegradable.

Bioaccumulation Potential:

Enzymatic Detergent Ultrasonic Cleaning Concentrate

The bioaccumulation potential of this product has not been determined.

Mobility:

The mobility of this product (in soil and in water) has not been determined.

Product AT USE DILUTION

Readily biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

Product AS SOLD

Waste Number and Description : Not applicable

Disposal Considerations : Not regulated

Disposal of products : This product is not a RCRA hazardous waste and can be disposed of in accordance with federal, state, and local regulations.

Disposal of packages : Do not reuse this container. Rinse it with water and place it in trash.

Product AT USE DILUTION

Disposal methods: Diluted product can be flushed to sanitary sewer.

Disposal considerations: Dispose of in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

Product AS SOLD

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Dispose of container and unused contents in accordance with federal, state, and local requirements.

Land Transport (US DOT) : Not hazardous
Sea Transport (IMDG/IMO) : No information available
Air transport (IATA) : No information available

SECTION 15: REGULATORY INFORMATION

Product AS SOLD

Occupational Safety and Health Act:

Hazard Communication Rule, 29 CFR 1910.1200: The Occupational Safety and Health Administration (OSHA) require Safety Data Sheets (SDSs) to provide information about any hazard that may be associated with the product and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this SDS may contain health hazard information not relevant to consumer use.

Safety Data Sheet

Enzymatic Detergent Ultrasonic Cleaning Concentrate

United States Regulatory Information

TSCA 12 (b) Export Notification
CERCLA/SARA Section 302 EHS

: Not available
: The following components are subject to reporting levels established by SARA Title III, Section 302: Formaldehyde (CAS# 50-00-0).

CERCLA/SARA Section 311/312
CERCLA/SARA Section 313
California Proposition 65

: Not available
: None above reporting de minimis
: This product contains substances listed under California Proposition 65 which are not intentionally added; This product may contain trace amounts of ethylene oxide, a chemical known to the State of California to cause cancer and reproductive harm. This substance is not intentionally added and may be present as a manufacturing byproduct. For more information, visit www.P65Warnings.ca.gov

California Cleaning Product Act to Know Act of 2017 (SB 258)

: This product is labeled in compliance with CA SB258.

Chemical Name	CAS Registry Number	Functional Purpose	List(s)
Water	7732-18-5	Diluent	Not Applicable
Ethoxylated Alcohol	Withheld	Cleaning Agent	4
Glycerin	56-81-5	Stabilizer	Not Applicable
Potassium Caprylate	764-71-6	Emulsifier	Not Applicable
Homopolymer of Acrylic Acid	9003-04-7	Cleaning Agent	Not Applicable
Sodium Xylene Sulfonate	1300-72-7	Cleaning Agent	Not Applicable
Acid	Withheld	pH adjuster	Not Applicable
Tetrasodium Iminodisuccinate	144538-83-0	Chelating Agent	Not Applicable
Monoethanolamine	141-43-5	Dispersing Agent	4
1,2-Benzisothiazolin-3-one	Withheld	Biocide	Not Applicable
Sodium Formate	141-53-7	Stabilizer	Not Applicable
Antifoam	Withheld	Stabilizer	Not Applicable
Benzotriazole	95-14-7	Corrosion Inhibitor	Not Applicable
Enzyme Blend (subtilisin free protease, lipase, amylase)	Proprietary	Cleaning Agent	Not Applicable
Colorant	Not Available	Dye	Not Applicable

*Refer to www.belimed.com/en-us/solutions/consumables-protect for electronic links to designated lists

The ingredients of this product are reported in the following inventories:

TSCA 8 (b) Inventory Status

All components of this product are either listed on or exempt from the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

SECTION 16: ADDITIONAL INFORMATION

NFPA health hazard: 1

NFPA fire hazard: 0

NFPA reactivity: 0

Additional information: None

DISCLAIMER: The information provided on this sheet is not to be considered as warranty or quality specification. The information is given to provide general knowledge as to health and safety based on our understanding of safe handling, storage, transportation, disposal, and release. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or any process unless specified in the text.

Enzymatic Detergent Ultrasonic Cleaning Concentrate

Product AT USE DILUTION

NFPA:

Flammability

0

Health

0

Instability

0

Special hazard

HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Prepared by: Belimed Inc.

Issue date: July 18, 2025

Version: H