

Enzymatic Detergent Washer Disinfectant Concentrate

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier used on the label : **Enzymatic Detergent Washer Disinfectant Concentrate, pH Neutral**

Other means of identification : Multi-Enzyme Neutral Detergent for Automated Washer Disinfectants
: 2140001, 2140002, 2140005, 2140015, 2140030, 106-8046, 106-8048, 106-8049,
106-8050, 106-8051

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.

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

GHS Classification of the substance or mixture

Hazard Class	Hazard Category
SERIOUS EYE DAMAGE/EYE IRRITATION	: 2
RESPIRATORY SENSITIZATION	: 1
SKIN SENSITIZATION	: 1



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

Signal word : DANGER

Hazard Statement(s) : H317 - May cause an allergic skin reaction.
: H319 - Causes serious eye irritation.
: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements : **Prevention**
P261 - Avoid breathing mist, vapors, or spray.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace
P273 - Avoid release to the environment.
P280 - Wear protective gloves and eye protection.
P284 - Wear respiratory protection.

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P302+352 - IF ON SKIN: Wash with plenty of soap and water.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment see on this label.

P332+313 - If skin irritation occurs, get medical advice/attention.

P333+313 - If skin irritation or rash occurs, seek medical advice/attention.

P337+313 - If eye irritation persists, get medical advice/attention.

P342+311 - If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.

P362+364 - Take off contaminated clothing and wash it before reuse.

Storage and Disposal

: P501 - Dispose of contents and containers in accordance with local, regional, national, and international regulations.

Other Hazards

: Causes mild skin irritation.

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

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
Subtilisin Free Enzyme Blend	Proprietary	11 – 12 %	Respiratory Sensitizer 1
Sodium Xylene Sulfonate	1300-72-7	5 – 10 %	Eye irritation 2 Skin irritation 2
Sodium polyacrylate	9003-04-7	1.0 – 5 %	Eye irritation 2
1,2-Benzisothiazol-3(2H)-one	2634-33-5	0.1 -0.2 %	Acute Oral Toxicity 4 Eye Damage 1 Skin Corrosion 1 Skin Sensitizer 1

Additional Composition Information:

Where the chemical name is listed as proprietary and the CAS number is listed as "NA", the specific chemical identity has been withheld as a trade secret. Where the percent by weight is listed as a range, the exact percentage of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

Emergency and First Aid Procedure: If medical advice is required, show this safety data sheet to the doctor in attendance.

Description of necessary measures

Inhalation: Wear appropriate NIOSH/MSHA approved respiratory protection. Avoid breathing mist, vapors, or spray. If breathed in, move person into fresh air. If not breathing, give artificial respiration. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.

Skin contact: Wear protective gloves and avoid contact with skin. Wash off with soap and plenty of water. Take off

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Contaminated clothing and wash it before reuse. If skin irritation or rash occurs, seek medical advice/attention.

Eye contact: Wear 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. If eye irritation persists, get medical advice/attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, rinse mouth with water.

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.

Indication of any immediate medical attention and special treatment needed

After inhalation: Remove from exposure area to fresh air.

After skin contact: Rinse affected area with large amounts of mild soap and water until no evidence of product remains.

After eye contact: Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.

After ingestion: Dilution by rinsing the mouth and giving water to drink is recommended.

Note to Physicians: Treat symptomatically and supportively.

SECTION 5: FIREFIGHTING MEASURES

Flash point: No Data

Explosive limits: LEL: No Data; UEL: No Data

Autoignition Point: No Data

Suitable (and unsuitable) extinguishing media

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

Unsuitable extinguishing media: None known

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

Special protective equipment and precautions for firefighters

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and MSHA/NIOSH approved (or equivalent), and full protective gear. 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear skin, eye, and appropriate NIOSH/MSHA approved 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

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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. Dispose in accordance with local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Do not get in eyes, on skin, on clothing. Wear safety glasses with side shields or safety goggles. Use with adequate ventilation. Avoid generating aerosols and mists. Avoid inhalation of vapor or mist. Keep the containers closed when not in use. Remove contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated away from incompatible substances. Avoid extreme temperatures. Keep the containers tightly closed when not in use.

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 employer preparing the safety data sheet, where available.

Hazardous Component(s)	ACGIH	OSHA PEL	AIHA WEEL	OTHER
Protease Enzyme	TLV-C: 0.00006 mg/m ³ .	None	None	None
Glycerin	None	5 mg/m ³ PEL Respirable fraction. 15 mg/m ³ 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 (respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134).

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 and prolonged skin contact may occur.

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Appearance	: Clear, Blue, Liquid
Odor	: Mild odor
Odor threshold	: No data available
pH	: 8.0 - 9.0 (neat)
pH	: 6.0 - 8.5 (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
Decomposition temperature	: No data available
Viscosity	: No data available
VOC content	: No data available
Density	: No data available
Relative Density	: Approximately 1.055 (Specific Gravity)

SECTION 10: STABILITY AND REACTIVITY

Reactivity	: This product could react with strong acids, strong oxidizing agents.
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, strong acids.
Hazardous decomposition products	: Thermal decomposition may liberate toxic gases or fumes including oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION**Likely routes of exposure including symptoms related to characteristics**

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

Skin contact: Repeated or prolonged excessive exposure may cause irritation or dermatitis.

Eye contact: This product may cause serious irritation with stinging and redness.

Ingestion: Ingestion of large quantities may cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

Physical/Chemical: No physical/chemical hazards are anticipated for this product.

Other relevant toxicity information:

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The use of this product by the end-user is safe under normal and reasonable foreseen use.

Numerical measures of toxicity, including delayed and immediate effect

This table shown below addresses the following toxicological endpoints, if applicable:

Acute toxicity
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization

Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single exposure)
Aspiration hazard

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Confidential Component	None	Irritant
Sodium Xylene Sulfonate	None	Irritant
Subtilisin Free Enzyme Blend	None	Respiratory sensitizer

Carcinogenicity information

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Confidential Component	No	No	No
Sodium Xylene Sulfonate	No	No	No
Subtilisin Free Enzyme Blend	No	No	No

Carcinogenicity : None of the ingredients in this product are present at levels greater than or equal 0.1% that is identify as carcinogen the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Mutagenicity : None of the ingredients in this product are known to cause mutagenicity.

SECTION 12: ECOLOGICAL INFORMATION

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.

'NON-HAZARDOUS' 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 measure in soft water with fathead minnows are not identified as toxic hazardous waste to the aquatic environment.

96 LC₅₀: >750 mg/L

LC₅₀ Method: Linear Interpolation (ICPIN)

Toxicity to fish:

The product is not anticipated to be toxic to fish.

Toxicity to aquatic invertebrates:

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The product is 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:

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.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Number and Description	: Not applicable
Disposal Considerations	: Not regulated
Disposal of products	: US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. 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 container. Rinse it with water and place in trash.

SECTION 14: TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper shipping classification may vary by packaging, properties, and mode of transportation.

Land Transport (DOT)	: Not-hazardous
Sea Transport (IMDG/IMO)	: Not-hazardous
Air transport (IATA)	: Not-hazardous

SECTION 15: REGULATORY INFORMATION

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.

United States Regulatory Information

TSCA 12 (b) Export Notification	: Not available
CERCLA/SARA Section 311/312	: Not available
CERCLA/SARA Section 313	: None above reporting de minimis.
California Proposition 65	: This product does not contain substances listed under California Proposition 65.

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

: This product is labeled in compliance with CA SB258.

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Chemical Name	CAS Registry Number	Functional Purpose	List(s)
Water	7732-18-5	Diluent	Not Applicable
Enzyme Blend (subtilisin free protease, lipase, amylase)	Proprietary	Cleaning Agent	Not Applicable
Sodium Polyacrylate	9003-04-7	Cleaning Agent	Not Applicable
Sodium Xylene Sulfonate	1300-72-7	Cleaning Agent	Not Applicable
Glycerin	56-81-5	Stabilizer	Not Applicable
Tetrasodium Iminodisuccinate	144538-83-0	Chelating Agent	Not Applicable
Sodium Formate	141-53-7	Stabilizer	Not Applicable
1,2-Benzisothiazol-3(2H)-one	2634-33-5	Biocide	Not applicable
Benzotriazole	95-14-7	Corrosion Inhibitor	Not applicable
Food Grade Antifoam	63148-62-9	Foam Suppressant	Not Applicable
Colorant	Withheld	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 on 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.

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

Hazardous Components (Chemical Name)	CAS Registry Number	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
Sodium Xylene Sulfonate	1300-72-7	No	No	No
1,2-Benzisothiazol-3(2H)-one	2634-33-5	No	No	No
Sodium Polyacrylate	9003-04-7	No	No	No
Proprietary Enzyme Blend	Withheld	No	No	No

Hazardous Components (Chemical Name)	CAS Registry Number	Other US EPA or State List
Sodium Xylene Sulfonate	1300-72-7	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes Inventory; CA PROP.65: No; NJ EHS: No; PA HSL: No
1,2-Benzisothiazol-3(2H)-one	2634-33-5	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes Inventory; CA PROP.65: No; NJ EHS: No; PA HSL: No
Sodium Polyacrylate	9003-04-7	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes Inventory; CA PROP.65: No; NJ EHS: No; PA HSL: No
Proprietary Enzyme Blend	Not Available	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes Inventory; CA PROP.65: No; NJ EHS: No; PA HSL: No

SECTION 16: ADDITIONAL INFORMATION

NFPA health hazard: 2

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.

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This safety data sheet contains changes from the previous version in sections: 12

Prepared by: Belimed Inc.

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