



SDS

Emergency

CANUTEC
613-996-6666
CHEMTREC
800-424-9300

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Document/Revision SDS SON 1.3

1 Identification **BioSON** Indication Liquid Ultrasonic Bath Antimicrobial Surfactant
Manufacturer Micrylium Laboratories Inc. 5000M Dufferin Street, Toronto, Canada M3H 5T5
 Contact: 800-489-8868 www.micrylium.com

2 Hazard Identification	Health Hazard Identification	Physical Hazard Identification			Environmental Hazard Identification	
	No serious Health Hazards	None			Biodegradable, No Endocrine Disruptors	
Hazardous Component	CAS#	UN#	R Phrases	Concentration	TLV	
None	None	None	None	None	None	

3 Composition Chemical Characterization Water, Non Ionic Surfactants, CHG, Enzymes (Amylases, Lipases, Cellulases & Proteases), Anticorrosives

4 First Aid Measures

General Rinse with water.	Inhalation Remove victim to fresh air.	Ingestion Do not Induce vomiting. Victim should drink large quantities of water.
Skin contact If causes irritation, rinse thoroughly.	Eye contact Flush eyes with water for 20 minutes.	

5 Fire Fighting Measures
N/A

6 Accidental Release Measures
Use paper towel to absorb, dispose with domestic garbage.

7 Handling & Storage
Store in a cool, dry well ventilated location. Keep away from heat, sparks and flame.
DO NOT mix with Bleach or Peroxides.

8 Exposure Controls-Personal Protection
No specific measures required. Personal Protective Equipment not required.

9 Physical & Chemical Properties								Kinematic Viscosity
Form	Colour	Scent	Solidification point	Boiling point	Flash Point	Density	pH	mm ² /s
Liquid	Blue	Citrus	-8°C	105°C	na	1.06	8.5	80

10 Stability & Reactivity
Stable under normal conditions
Incompatibility Strong oxidants, acid chlorides, silver salts **Decomposition products** CO₂ CO

11 Toxicological Data
Acute Dermal Irritation LD₅₀ >5000 mg/kg; Acute Inhalation rat LC₅₀: 2.3 mg/L;
Not found to be a dermal sensitizer: Acute Oral LD₅₀ >5000 mg/kg; Ocular Irritation 0.0 after 7 Days.
Tests performed by Product Safety Labs, Dayton, NJ All Ingredients Food or Pharma Grade - Free of Nonyl Phenyl Ethoxylates
Reproductive Hazards None **Carcinogenicity** None

12 Ecological Information
Surfactants are readily biodegradable linear ethanol ethoxylates. All ingredients USP Pharma or Food Grade
Soil Readily biodegrades **Water** Readily biodegrades **Air** Slightly Volatile **Disposal** Domestic

13 Disposal considerations Domestic, no restrictions

14 Transport Information	Land	Sea	IATA
	Not Regulated	Not Regulated	Not Regulated

15 Regulatory
TSCA -No reporting required all ingredients are listed in inventory.
CERCLA - No hazardous pollutants - No Ozone depletion

16 Other Information
The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to information and recommendations contained herein.



Test Results

10 Minute Immersion

Pseudomonas aeruginosa
ATCC 15442 (10% soil/bioburden) **Biolenia**

Salmonella enterica (choleraesuis)
ATCC 10708 (10% soil/bioburden) **Biolenia**

Staphylococcus aureus
ATCC 6538 (10% soil) **Biolenia**

Escherichia coli
NCTC 10541 (10% soil) **Biolenia**

Trichophyton mentagrophytes
ATCC 9533 (10% soil) **Biolenia**

Trichophyton menghini
ATCC 12106 (10% soil) **Biolenia**

Description

Ultrasonic
Bath Cleaning
& Presoak
Concentrate
for
Instruments
prior to
Sterilization
Citrus Scent

Features

**Responsible
to the
Environment**

Economical

**Non-Corrosive
Non-Staining**

**Staff
Friendly**

**2x
Concentrated**

**4 Enzyme
Cleaner**

Benefits

BioSON contains NO quats, phenols or aldehydes. **BioSON** does not contain recently noted hormone disrupting surfactants based on Nonyl-phenyl Ethoxylates. Contains Natural source biodegradable surfactants and complies with all sewer regulations. Effective for up to **5 days**.

Will not corrode metals, even when carbide, stainless or aluminum instruments are mixed.

Protects staff from bath generated aerosols of toxic chemicals. Gloves and Mask are not necessary when handling **BioSON** as it is kind to skin. Protects staff from Cross-Contamination when handling soiled instruments prior to sterilization.

1:30 Dilution liquid mixes instantly economical-easy storage with concentrated formula.

Use as pre-soak to remove dried blood, saliva, body fluids and debris.

Availability 50 mL Single Use pouch (case of 20) • 5 L Bulk Bag-in-Box (single or case of 4)

Protocol

One 50 mL pouch of **BioSON** should be added to 1.5L of warm water in the Ultrasonic Bath (popular size-1.7 to 2 quart baths)

Set timer for 10 minutes.
REPLACE **BioSON** when solution appears dirty with excess debris.

EFFECTIVE for up to 5 days.
Caution: Do not leave instruments in bath solutions overnight.

For larger cassette-type Ultrasonic Baths or Holding Drawers, use 5L Bag-in-Box Format. For example 500 mL of **BioSON** concentrate is sufficient for a 15 L (4 gallon) bath.

Helpful Tips

USE LEFTOVER SOLUTION IN drains or plaster sinks to reduce microbes and unpleasant odours.

USE AS A CHAIRSIDE PRESOAK for instruments to reduce **risk** prior to transporting to the sterilization area.

BioSON REPLACES other specific ultrasonic cleaners like tartar and stain remover

PLACE JEWELLERY, HEARING AIDS, DENTURES or PROSTHETICS in separate glass beaker filled with **BioSON** to give double wave motion.

Frequently Asked Questions

Why do I need an antimicrobial solution for instruments that are later sterilized?

1. To reduce the infectious load in transit between ultrasonic and sterilizer.
2. In the past, instruments usually left the ultrasonic more contaminated than when they entered. Remember that microbes multiply exponentially, doubling their numbers every 20 minutes.
3. When emptying the bath contaminated solution splashes into sink and counter. Studies have shown that up to 40,000,000 Colonies of bacteria per mL are present in same-day ultrasonic baths.
4. When placing instruments into bath, infected solution may splash in your face.
5. You reduce the quantity of pathogenic solution discharged into the sewers.