



# Boston ONE STEP Liquid Enzymatic Cleaner

## MATERIAL SAFETY DATA SHEET

Effective Date: 8/24/06 Supersedes: 11/28/05

Page 1 of 6

### Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Boston ONE STEP Liquid Enzymatic Cleaner  
**Product Code(s):** 5602  
**Manufacturer:** Bausch & Lomb, Incorporated  
**Address:** 1400 N. Goodman Street  
Rochester, New York 14609

**For Information:** 1-800-553-5340  
**For Emergency:** 1-800-535-5053

### Section 2: COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	COMPONENT NAME	% W/W	OCCUPATIONAL EXPOSURE LIMITS / GUIDELINES										UNITS
			OSHA PEL		ACGIH TLV		NIOSH REL		IRELAND		HSE		
			TWA /STEL	TWA /STEL	TWA /STEL	TWA /STEL	TWA /STEL	TWA /STEL	TWA /STEL	TWA /STEL	TWA /STEL		
10043-35-3	Boric Acid	< 1.0	NE	NE	2	6	NE	NE	NE	NE	NE	NE	MG/M3
56-81-5	Glycerin	< 70	5*,15**	NE	10	NE	NE	NE	10	NE	10	NE	NA
9014-01-1	Alkaline Protease	< 3.0	NE	NE	NE	NE	NE	Note <sup>1</sup>	NE	NE	NE	Note <sup>1</sup>	NA
1303-96-4	Sodium Borate	< 1.0	NE	NE	2	6	5	NE	5	NE	5	NE	MG/M3
1310-73-2	Sodium Hydroxide	< 0.5	NE	NE	NE	2C	NE	2C	NE	2	NE	2	MG/M3

N/E: Not Established OSHA: Occupational Safety & Health Administration  
N/A: Not Applicable PPM: Parts Per Million MG/M3: Milligrams Per Cubic Meter  
ACGIH: American Conference of Governmental Industrial Hygienists  
NIOSH: National Institute for Occupational Safety & Health  
Note<sup>1</sup>: STEL 0.00006 mg/m3, 60 Min.

TWA: 8-Hour Time-Weighted Average \*Respirable Mist  
STEL: Short-Term Exposure Limit \*\* Total Mist  
C: Ceiling Limit  
REL: Recommended Exposure Limit

### Section 3: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

***Boston ONE STEP Liquid Enzymatic Cleaner is a clear water-like liquid with no odor. This product is intended for the weekly enzymatic cleaning of fluoro silicone acrylate and silicone acrylate rigid gas permeable contact lenses. Do not use with soft (hydrophilic) contact lenses. If you are allergic to any ingredient in this product, DO NOT USE.***

# Boston ONE STEP Liquid Enzymatic Cleaner

## MATERIAL SAFETY DATA SHEET

Page 2 of 6

### Section 3: HAZARDS IDENTIFICATION (cont.)

#### **PRECAUTIONS:**

This product is intended for the weekly enzymatic cleaning of fluoro silicone acrylate and silicone acrylate rigid gas permeable contact lenses. Do not use with soft (hydrophilic) contact lenses. If any discomfort develops, immediately discontinue use of this product. If discomfort persists, contact your eye care professional. Use in accordance with product literature.

If you are allergic to any ingredient in this product, DO NOT USE.

#### **POTENTIAL HEALTH EFFECTS**

##### **EYE:**

Non-irritating to the eyes when used as directed.

##### **SKIN:**

Non-irritating to skin or mucous membranes when used as directed.

##### **INGESTION:**

Small amounts (a tablespoonful) swallowed are not likely to cause injury; swallowing amounts larger than that may cause gastrointestinal irritation.

##### **INHALATION:**

No hazard when used as directed.

#### **CHRONIC HEALTH EFFECTS**

No known chronic hazards.

#### **CARCINOGENICITY:**

**NTP:** No ingredients listed.

**IARC:** No ingredients listed.

**OSHA:** No ingredients listed.

### Section 4: FIRST AID MEASURES

#### **EYES:**

If discomfort or irritation develops, immediately discontinue product use and contact your eye care professional.

#### **SKIN:**

No specific treatment is necessary since this material is not likely to be hazardous by contact with the skin or mucous membranes.

# Boston ONE STEP Liquid Enzymatic Cleaner

## MATERIAL SAFETY DATA SHEET

Page 3 of 6

### Section 4: FIRST AID MEASURES (cont.)

#### **INGESTION:**

No specific treatment is necessary since this material is not likely to be hazardous by ingestion. If large quantities are accidentally ingested (greater than a tablespoon), get medical attention immediately.

#### **INHALATION:**

No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of mists, remove to fresh air and get medical attention if cough or other symptoms develop.

### Section 5: FIRE FIGHTING MEASURES

#### **FLAMMABLE PROPERTIES:**

**Flash Point:** Non-Combustible

**Method:** NA

#### **EXTINGUISHING MEDIA:**

Water spray, carbon dioxide, dry chemical powder or appropriate foam for surrounding fire.

#### **HAZARDOUS COMBUSTION PRODUCTS:**

None identified.

#### **SPECIAL FIRE FIGHTING INSTRUCTIONS:**

As in any fire, wear self-contained breathing apparatus and full protective gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

#### **General Information:**

Contain spill and absorb with a suitable inert material, then place in a chemical waste container. Dispose of in accordance with Section 13.

### Section 7: HANDLING AND STORAGE

#### **HANDLING:**

No special handling is required. Use in accordance with product literature.

#### **STORAGE:**

Store at room temperature to maintain product integrity.

# Boston ONE STEP Liquid Enzymatic Cleaner

## MATERIAL SAFETY DATA SHEET

Page 4 of 6

### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### RESPIRATORY PROTECTION:

No special controls or personal protection required under conditions of intended use.

#### SKIN PROTECTION:

No special controls or personal protection required under conditions of intended use.

#### EYE PROTECTION:

No special controls or personal protection required under conditions of intended use.

#### ADDITIONAL PROTECTIVE CLOTHING & EQUIPMENT:

NA

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### PHYSICAL PROPERTIES:

**Appearance / Physical State:** Clear, Water-Like  
**Odor:** Odorless

#### CHEMICAL PROPERTIES:

<b>Boiling Point:</b>	Not Determined	<b>Melting Point:</b>	Not Applicable
<b>Vapor Pressure:</b>	Not Determined	<b>Vapor Density:</b>	Not Determined
<b>Solubility In Water:</b>	Highly Soluble	<b>Specific Gravity (H2O = 1):</b>	1.006
<b>pH:</b>	5.3 - 5.8	<b>Freezing Point:</b>	Not Determined
<b>Molecular Weight:</b>	Mixture, Not Applicable		

### Section 10: STABILITY AND REACTIVITY

#### GENERAL:

Stable under normal conditions.

#### INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

None.

#### HAZARDOUS POLYMERIZATION:

Will not occur.

#### HAZARDOUS DECOMPOSITION:

None identified.

# Boston ONE STEP Liquid Enzymatic Cleaner

## MATERIAL SAFETY DATA SHEET

Page 5 of 6

### Section 11: TOXICOLOGICAL INFORMATION

**RTECS No.:** ED4550000

**Boric Acid**

**Toxicity Data:** ORL-RAT LD50: 2660 MG/KG

**RTECS No.:** SC7310000

**Sodium Borate**

**Toxicity Data:** ORL-MOUSE LD50: 3250 MG/KG

**RTECS No.:** WB4900000

**Sodium Hydroxide**

**Toxicity Data:** ORL-RAT No LD50 listed

**RTECS No.:** MA8050000

**Glycerin**

**Toxicity Data:** ORL-RAT LD50: 12600 MG/KG

**RTECS No.:** CO9550000

**Alkaline Protease**

**Toxicity Data:** ORL-RAT LD50: 3700 MG/KG

**NOTE:** Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

(\*) Toxicological data supplied by the manufacturer.

### Section 12: ECOLOGICAL INFORMATION

No data available on the environmental impact of this product.

### Section 13: DISPOSAL CONSIDERATIONS

All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

# Boston ONE STEP Liquid Enzymatic Cleaner

## MATERIAL SAFETY DATA SHEET

Page 6 of 6

### Section 14: TRANSPORT INFORMATION

	US DOT	IATA	IMO	RID/ADR	Canadian DG
<b>Shipping Name:</b>	Not Regulated	Not Regulated	No Information Available	No Information Available	No Information Available
<b>Hazard Class:</b>	NA	NA			
<b>UN Number:</b>	NA	NA			
<b>Package Group:</b>	NA	NA			

There are no unreasonable risks (health, safety, or property), that this product would pose when transported in commerce. Hazard class definitions (49 CFR, Part 173) are not applicable to this product.

### Section 15: REGULATORY INFORMATION

#### OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200):

ONE STEP Liquid Enzymatic Cleaner is considered hazardous under the Occupational Safety & Health Administration Hazard Communication Standard.

#### TOXIC SUBSTANCE CONTROL ACT (TSCA):

CAS# 56-81-5 is listed on the TSCA Inventory.  
CAS# 10043-35-3 is listed on the TSCA Inventory.  
CAS# 1303-96-4 is listed on the TSCA Inventory.  
CAS# 1310-73-2 is listed on the TSCA Inventory.  
CAS# 9014-01-1 is listed on the TSCA Inventory

#### SARA TITLE III (Superfund Amendments and Reauthorization Act):

SECTION 302 (Extremely Hazardous Substances): No Components Listed  
SECTION 311, 312 (Hazard Categories): NA  
SECTION 313 (Toxic Chemicals): No Components Listed

#### CALIFORNIA PROPOSITION 65:

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels that would require a warning under the statute.

### Section 16: OTHER INFORMATION

*To the best of our knowledge, the information contained herein is accurate. However, neither Bausch & Lomb Incorporated nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE IS MADE. In no event shall Bausch & Lomb Incorporated or any of its subsidiaries be liable for any special, incidental or consequential damages.*