



## ReNu MultiPlus Multi-Purpose Solution

### MATERIAL SAFETY DATA SHEET

Effective Date: 1/22/09

Supersedes: 11/11/05

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#### Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

##### PRODUCT:

**Product Name:** ReNu MultiPlus Multi-Purpose Solution  
**Product Description:** A sterile buffered, isotonic, aqueous solution  
**Product Code(s):** 623122, 623118, 629595  
**Intended Use:** Daily cleaning, disinfection and storage of soft (hydrophilic) contact lenses

##### COMPANY IDENTIFICATION:

Bausch & Lomb, Incorporated  
1400 N. Goodman Street  
Rochester, New York 14609

**For Information:** 1-800-553-5340

##### EMERGENCY TELEPHONE NUMBER:

**24-Hour Emergency:** 1-800-535-5053

#### Section 2: HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

*ReNu MultiPlus Multi-Purpose Solution is a clear, odorless liquid. This product is intended for use in cleaning soft (hydrophilic) contact lenses. Follow the instructions accompanying the product carefully. If you are allergic to any ingredient in this product, DO NOT USE. Keep out of reach of children.*

##### PRECAUTIONS:

This product is recommended for the cleaning care regimen of soft (hydrophilic) contact lenses per label instructions. 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.**

**Keep out of reach of children.**

##### 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.

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### Section 2: HAZARDS IDENTIFICATION (cont.)

#### 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 3: COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	CHEMICAL IDENTITY	% W/V
10043-35-3	Boric Acid	Proprietary
1303-96-4	Sodium Borate	Proprietary
6381-92-6	Edetate Disodium	Proprietary
3794-83-0	Hydroxyalkyl Phosphonate	Proprietary
11111-34-5	Poloxamine	Proprietary
7647-14-5	Sodium Chloride	Proprietary
27083-27-8	Polyaminopropyl Biguanide	0.0001
7732-18-5	Purified Water	Balance

pH balanced with Sodium Hydroxide and/or Hydrochloric Acid.

### 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.

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### 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 mist, 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. Use before the expiration date marked on the carton and bottle.

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### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CAS #	COMPONENT NAME	OCCUPATIONAL EXPOSURE LIMITS / GUIDELINES										UNITS	
		OSHA PEL TWA /STEL	ACGIH TLV TWA /STEL	NIOSH REL TWA /STEL	IRELAND TWA /STEL	HSE TWA /STEL							
10043-35-3	Boric Acid	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	N/A
1303-96-4	Sodium Borate	NE	NE	2	6	5	NE	5	NE	5	NE	5	MG/M3
6381-92-6	Edetate Disodium	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
3794-83-0	Hydroxyalkyl Phosphonate	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
11111-34-5	Poloxamine	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
7647-14-5	Sodium Chloride	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
27083-27-8	Polyaminopropyl Biguanide	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	N/A
7732-18-5	Purified Water	NA		NA		NA		NA		NA		NA	NA

N/E: Not Established      OSHA: Occupational Safety & Health Administration  
 N/A: Not Applicable      PPM: Parts Per Million  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 NIOSH: National Institute for Occupational Safety & Health

TWA: 8-Hour Time-Weighted Average  
 STEL: Short-Term Exposure Limit  
 C: Ceiling Limit  
 REL: Recommended Exposure Limit

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

#### ENGINEERING CONTROLS:

Use with good ventilation. No special controls required under conditions of intended use.

#### RESPIRATORY 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.

#### SKIN PROTECTION:

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

#### ADDITIONAL PROTECTIVE CLOTHING & EQUIPMENT:

NA

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### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	No Odor
<b>Odor Threshold:</b>	Not determined
<b>pH-Value:</b>	6.8-7.6
<b>Melting Point:</b>	Not applicable
<b>Freezing Point:</b>	Not determined
<b>Initial Boiling Point:</b>	Not determined
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not applicable
<b>Explosion Limits:</b>	Not applicable
<b>Vapor Pressure:</b>	Not determined
<b>Vapor Density:</b>	Not determined
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	Not determined
<b>Solubility:</b>	Soluble in water
<b>Partition Coefficient:</b>	Not applicable
<b>Auto-Ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	Not determined
<b>Viscosity:</b>	Not determined

### 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.

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### Section 11: TOXICOLOGICAL INFORMATION

**RTECS No.:** ED4550000

#### **Boric Acid**

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

**RTECS No.:** VZ22750000

#### **Sodium Borate**

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

**RTECS No.:** Ah4410000

#### **Edetate Disodium**

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

**RTECS No.:** VZ4725000

#### **Sodium Chloride**

**Toxicity Data:** ORL-RAT LDLo: 3 Mg/KG

**RTECS No.:** JL6475000

#### **Hydroxyalkyl Phosphonate**

**Toxicity Data:** ORL-RAT LDLo: 990 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.

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### 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):

ReNu MultiPlus Multi-Purpose Solution is considered non-hazardous under the Occupational Safety & Health Administration Hazard Communication Standard.

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

CAS# 27083-27-8 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# 6381-92-6 is listed on the TSCA Inventory.  
CAS# 7647-14-5 is listed on the TSCA Inventory.  
CAS# 3794-83-0 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.*