

ReNu MultiPlus Multi-Purpose Solution

MATERIAL SAFETY DATA SHEET

Effective Date: 6/14/2012 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 | N/A |
| 1303-96-4 | Sodium Borate | NE | NE | 2 | 6 | 5 | NE | 5 | NE | 5 | NE | MG/M3 |
| 6381-92-6 | Eddate Disodium | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NA |
| 3794-83-0 | Hydroxylalkyl Phosphonate | 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 | NA |
| 7647-14-5 | Sodium Chloride | 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 | N/A |
| 7732-18-5 | Purified Water | NA | NA | NA | NA | 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

| | |
|---|------------------|
| Physical State: | Liquid |
| Color: | Colorless |
| Odor: | No Odor |
| Odor Threshold: | Not determined |
| pH-Value: | 6.8-7.6 |
| Melting Point: | Not applicable |
| Freezing Point: | Not determined |
| Initial Boiling Point: | Not determined |
| Flash Point: | Not applicable |
| Evaporation Rate: | Not determined |
| Flammability (solid, gas): | Not applicable |
| Explosion Limits: | Not applicable |
| Vapor Pressure: | Not determined |
| Vapor Density: | Not determined |
| Specific Gravity (H₂O=1): | Not determined |
| Solubility: | Soluble in water |
| Partition Coefficient: | Not applicable |
| Auto-Ignition Temperature: | Not applicable |
| Decomposition Temperature: | Not determined |
| Viscosity: | 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 |
|-----------------------|---------------|---------------|--------------------------|--------------------------|--------------------------|
| Shipping Name: | Not Regulated | Not Regulated | No Information Available | No Information Available | No Information Available |
| Hazard Class: | NA | NA | | | |
| UN Number: | NA | NA | | | |
| Package Group: | 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.