

## **Material Safety Data Sheet**

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### **SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY:**

**Identification Of The Substance/Preparation:**

**Trade Name:** FlashGel® Recovery Buffer

**Chemical Name:** Aqueous solution

**Synonym:** Recovery Buffer

**Canada PIN:** None

**Use Of The Substance:** For R&D/experimental use only

**Company Identification:**

Lonza Rockland, Inc.

191 Thomaston Street

Rockland, ME 04841-2995

USA

Business Telephone: (207) 594-3400

Emergency Telephone: 703-527-3887 (US: 800-424-9300)

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### **SECTION 2 - HAZARDS IDENTIFICATION:**

**Emergency Overview:** Clear, colorless liquid. May cause irritation to eyes, skin, and respiratory system.

**Health Effects:**

**Inhalation:** Mists may cause irritation to the upper respiratory system.

**Skin:** May cause irritation. Symptoms may include redness, rash, and itching.

**Eyes:** May cause eye irritation. Symptoms may include redness, and tearing.

**Ingestion:** May cause nausea and discomfort.

**Chronic Effects/Target Organ Effects:** None known

**Medical Conditions Aggravated By Exposure:** None known

**Environmental Effects:** None known

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### **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS:**

<u>Components</u>	<u>EINECS #</u>	<u>CAS #</u>	<u>Weight%</u>	<u>EU Classification</u>
This product is not classified as dangerous				

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### **SECTION 4 - FIRST AID MEASURES:**

**Inhalation:** Follow standard care for a respiratory emergency as necessary. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Skin:** Follow standard care for skin contact as needed. Immediately wash thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms develop. Wash clothing and shoes before reuse, or discard in a manner which limits further exposure.

**Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation persists.

**Ingestion:** If swallowed, get medical attention immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

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### **SECTION 5 - FIRE FIGHTING MEASURES:**

**Extinguishing Media:** Dry chemical, fire-fighting foam, water spray, or carbon dioxide based on surrounding materials.

**Special exposure Hazards:** This product is water-based. Under fire conditions organic residues remaining after the water evaporates is expected to burn generating toxic and irritating gases and smoke. Evacuate area and fight fire from safe distance.

**Special Protective Equipment:** None required for this product

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### **SECTION 6 - ACCIDENTAL RELEASE MEASURES:**

**Personal Precautions:** Prevent skin/eye contact due to use of product (Recovery Activities). Use personal protective equipment as needed. Isolate spill area, preventing entry by unauthorized persons.

**Environmental Precautions:** Minimize entry of material into sewers and drainage systems. Refer to permit discharge limitations if applicable.

**Methods For Cleaning Up:** Clean up spills immediately, observing precautions in the material safety data sheet and label. Use absorbent materials if needed and dispose into a chemical waste container.

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### **SECTION 7 - HANDLING AND STORAGE:**

**Handling:** Use with adequate ventilation as necessary or desired. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Follow all MSDS/label precautions. Follow precautions for packaging that may product residues. Avoid contact with skin and eyes.

**Storage:** Keep container tightly closed when not in use. Store at 18-24°C.

**Specific Uses:** For R&D/experimental use only

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### **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION:**

**Exposure Limit Values:** None

**Exposure Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls as needed.

**Respiratory Protection:** Use an approved air-purifying respirator as needed. Consult with respirator manufacturer to determine respirator selection, use, and limitations.

**Eye/Face Protection:** Use safety glasses. Where contact with the eyes is likely, use chemical goggles.

**Skin/Hand Protection:** Use gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

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### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance:** ..... Clear or colorless liquid.

**Odor:** .....None

**Flash point:** .....Not available

**Viscosity:** ..... Not available.

**Solubility:** .....Miscible in water

**Density (water = 1):** .. 1.020

**Partition Coefficient:** . Not available

**Boiling Point:** .....above 100°C

**Melting Point:** .....Not available

**pH:** ..... ~ 7

**Other:** ..... Not available.

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### **SECTION 10 - STABILITY AND REACTIVITY:**

**Stability:** Stable.

**Conditions To Avoid:** Avoid contact with strong oxidizers.

**Materials To Avoid:** Strong oxidizers.

**Hazardous Decomposition Products:** Oxides of carbon and nitrogen.

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### **SECTION 11 - TOXICOLOGICAL INFORMATION:**

Product is water based, and no component is at a level which would present a hazard.

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### **SECTION 12 - ECOLOGICAL INFORMATION:**

**Ecotoxicity:** N/A at this level

**Mobility:** N/A at this level

**Persistence And Degradability** N/A at this level

**Bioaccumulative Potential:** N/A at this level

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### **SECTION 13 - DISPOSAL CONSIDERATIONS:**

Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

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### **SECTION 14 - TRANSPORT INFORMATION:**

Not expected to be hazardous for transport

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### **SECTION 15 - REGULATORY INFORMATION:**

#### **US Regulations:**

This product meets the following SARA 311/312 hazard categories: acute.

This product contains the following SARA 302 Extremely Hazardous Substances: none.

This product contains the following SARA 313 Toxic Chemicals: none.

This product contains the following CERCLA Hazardous Substances: none.

Not all components of this product are listed in the TSCA inventory. This product is for R&D and experimental uses only and must be used under the supervision of a technically qualified individual. Other uses are not authorized.

#### **EU Regulations:**

This preparation meets the dangerous preparations classification criteria under 1999/45/EC.

Xi: R36/37/38: Irritating to eyes, respiratory system and skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39: Wear suitable gloves and eye/face protection.

Not all components of this product are listed on EINECS.

#### **Canadian Regulations:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and it contains the information required by the CPR.

This product meets WHMIS classification criteria D2B.

Not all components of this product are listed on the DSL.

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### **SECTION 16 - OTHER INFORMATION:**

**NFPA/HMIS Ratings:** Health = 1; Fire = 0; Reactivity = 0; NFPA/Special = None

**Other Information:** None

**MSDS Revisions:** January 2009: Rev. 0

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