



# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY INFORMATION

*This Material Safety Data Sheet is for the following products:*

**MANUFACTURER:**

**Immucor, Inc.**

3130 Gateway Drive  
Norcross, GA 30071

**Manufacturer's Phone:** 800-829-2553 (US and Canada)  
770-441-2051

**Emergency Phone:** 800-829-2553 (US and Canada)

**AUTHORIZED REPRESENTATIVE (Europe):**

**Immucor Medizinische Diagnostik GmbH**

Adam-Opel-Strasse 26 A  
63322 Rödermark

Germany

**Authorized Rep. Phone:** +49 6074 84200

**Emergency Phone:** +49 6074 84200

Product Name	Product Code	Size
Gamma-clone® Control	0420403	3x10mL
Gamma-clone® Control	0420410	10x10mL
Gamma-clone® Control	0420400	100x10mL
Gamma-clone® Anti-e (Monoclonal Blend)	0066424	1x5mL

Product Name	Product Code	Size
Gamma-clone® Anti-D (Monoclonal Blend)	0420503	3x10mL
Gamma-clone® Anti-D (Monoclonal Blend)	0066420	10x10mL
Gamma-clone® Anti-D (Monoclonal Blend)	0420500	100x10mL
Gamma ELU-KIT™ II	0007861	Kit

**Specific Use:** Intended to be used in the detection and identification of certain properties of cell and serum components of blood prior to transfusion.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>
Glycine	56-40-6	1-10%
Bovine Albumin	9048-46-8	1-10%
Sodium Azide	26628-22-8	0.1%

## 3. HAZARDS IDENTIFICATION

**Inhalation:** May cause irritation to respiratory tract and mucous membranes, sore throat, coughing, dizziness, shortness of breath and fainting. May be absorbed through inhalation.

**Ingestion:** May cause breathlessness, pulmonary edema and rapid heartbeat within 5 minutes. Nausea, vomiting, headache, restlessness and diarrhea may occur within 15 minutes. Other symptoms may include low blood pressure, abnormal breathing, reduced body temperature, reduced body pH, convulsions, collapse and death.

**Eye Contact:** Causes irritation, redness, pain and blurred vision.

**Skin Contact:** Causes redness, irritation and pain. May be absorbed through skin.

## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Ingestion:** *DO NOT* induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**Skin Contact:** Wipe off affected area and flush with plenty of soap and water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention. Wash clothing and shoes thoroughly before reuse.

**Medical Conditions Possibly Aggravated:** None known.

## 5. FIRE-FIGHTING MEASURES



# MATERIAL SAFETY DATA SHEET

Estimated Explosive Limits (% By volume in air): Lower Explosive Limit: N/A Upper Explosive Limit: N/A

Flash Point: N/A

Autoignition Temperature: N/A

Fire and Explosion Hazards: N/A

**Extinguishing Media:** Use appropriate extinguishing media for surrounding fire: dry chemical, carbon dioxide, water spray or regular foam.

**Special Fire Fighting Procedures:** Wear appropriate personal protective equipment. Fight fires only if properly trained. Move containers from fire area if it can be accomplished without risk. Use water to keep containers cool. Dike fire control water.

**Unusual Fire and Explosion Hazards:** Avoid breathing vapors or dusts. Keep upwind.

**Hazardous Decomposition Products:** Not determined.

## 6. ACCIDENTAL RELEASE MEASURES

**Action to Be Taken if Material Is Released or Spilled:** Remove all sources of ignition. Do not touch spilled material. Stop the release if you can do it without risk. Isolate the area and deny entry. Absorb the spill and place used absorbent material into approved containers for later disposal. Decontaminate the area with an approved disinfectant. Cover the area with paper towels and pour disinfectant over the area. Wipe the area until clean and dry.

## 7. HANDLING AND STORAGE

**Handling:** Food and drink should not be consumed, nor tobacco products used, nor cosmetics applied in areas where chemicals are stored or handled.

**Storage:** Store away from incompatible substances. Store in tightly closed containers. Avoid contact with open wounds and body fluids. Wash thoroughly after handling and before eating, drinking or smoking. Observe federal, state and local regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>	<u>OSHA PEL-TWA</u>	<u>ACGIH-TWA TLV</u>	<u>ACGIH-STEL/CEIL(C)</u>
Glycine	56-40-6	1-10%	N/A	N/A	N/A
Bovine Albumin	9048-46-8	1-10%	N/A	N/A	N/A
Sodium Azide	26628-22-8	0.1%	N/A	N/A	C 0.11 as HN <sub>3</sub> vapor C 0.29 as NaN <sub>3</sub>

**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below permissible air concentrations.

**Eye/Face Protection:** Use chemical safety goggles and/or full face shield where splashing of the solution is possible. Maintain eyewash fountain and quick drench facilities in the work area.

**Skin Protection:** Clothing such as gowns, aprons, or lab coats should be worn when working with this material. Protective gloves should be worn while handling materials and/or surfaces, which are potentially infectious.

**Respiratory Protection:** A NIOSH/MSHA approved respirator should be worn where airborne exposures may exceed OSHA/ACGIH exposure limits.

**Other/General Protection:** Hood, surgical caps, boots and shoe covers should be worn in areas with significant quantities of infectious materials.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	liquid	<b>Evaporation Rate (Butyl Acetate=1.0):</b>	N/A
<b>Color:</b>	Clear	<b>Vapor Pressure:</b>	18 mm Hg
<b>Odor:</b>	N/A	<b>Vapor Density (Air=1):</b>	N/A
<b>pH:</b>	6-8 pH for Elu-kit is 2-9	<b>Density:</b>	Not determined
<b>Boiling Point:</b>	212 °F	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1
<b>Flash Point:</b>	N/A	<b>Solubility in Water:</b>	N/A



# MATERIAL SAFETY DATA SHEET

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Conditions to Avoid:** Fire and excessive heat. May decompose in heat.

**Incompatibility:** Benzoyl chloride, potassium hydroxide, bromine, carbon disulfide, chromyl chloride, copper, dibromomalononitrile, dimethyl sulfate, lead, barium carbonate, sulfuric acid, nitric acid, strong acids and substances that react violently with water.

**Hazardous Decomposition Products:** Sodium azide when heated to decomposition liberates nitrogen gas and sodium, which is explosive. Carbon dioxide and carbon monoxide may form when bovine albumin is heated to decomposition.

**Hazardous Polymerization:** Will not occur.

**Possibility of Hazardous Reaction:** Not determined.

## 11. TOXICOLOGICAL INFORMATION

**Acute Effects:** This product is manufactured from human blood and therefore must be considered to be capable of transmitting disease. The substance irritates the eyes, the skin and the respiratory tract. Exposure above Occupational Exposure Limits could cause effects on the nervous system.

**Chronic Effects:** No information found.

**Listed Carcinogens:** None.

## 12. ECOLOGICAL INFORMATION

No data available.

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable federal, state, and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## 14. TRANSPORT INFORMATION

**UN ID Number:** N/A      **Transport Hazard Class:** N/A  
**DOT Proper Shipping Name:** N/A      **Packaging Group:** N/A

## 15. REGULATORY INFORMATION

**TSCA:** All components of this product are listed on the TSCA inventory.      **SARA Title III: Section 302:** None  
**CERCLA Reportable Quantity:** None      **Section 312:** None  
**Clean Air Amendments-Hazardous Air Pollutant (HAPS):** None      **Section 313:** None  
**California State Proposition 65:** None

## 16. OTHER INFORMATION

Symbol: Xn      R-Phrase: 22      S-Phrases: N/A

### Hazardous Material Identification System (HMIS):

<b>HEALTH:</b>	0	Rating are based on 0-4 rating scale, with 0 representing minimal hazard or risk, and 4 representing severe hazard or risk.
<b>FLAMMABILITY:</b>	0	
<b>REACTIVITY:</b>	0	
<b>PERSONAL PROTECTION:</b>	B	* Represents materials with chronic effects Letter code used to determine correct PPE to handle material



MSDS NO: G011-8  
PRODUCT TYPE: MEDICAL DIAGNOSTIC REAGENT  
REVISION DATE: 12/27/2010

## MATERIAL SAFETY DATA SHEET

PAGE 4 OF

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