



# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF COMPANY/UNDERTAKING

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

### MANUFACTURER:

**Immucor, Inc.**  
3130 Gateway Drive  
Norcross, GA 30071  
Phone: 800-829-2553 (US and Canada)  
770-441-2051

### AUTHORIZED REPRESENTATIVE (Europe):

**ImmucorGamma Benelux**  
Zoning Industriel de Fleurus-Heppignies  
Avenue d'Heppignies n° 27  
6220 Heppignies  
Belgium  
Phone: 0032 71 373 795

Product Name	Product Code	Size
Gamma-clone® Anti-A (Murine Monoclonal)	0410203	3x10mL
Gamma-clone® Anti-A (Murine Monoclonal)	0410210	10x10mL
Gamma-clone® Anti-A (Murine Monoclonal)	0410200	100x10mL
Gamma-clone® Anti-B (Murine Monoclonal)	0413210	10x10mL
Gamma-clone® Anti-B (Murine Monoclonal)	0413200	100x10mL
Gamma-clone® Anti-A,B (Murine Monoclonal Blend)	0414210	10x10mL
Gamma-clone® Anti-A,B (Murine Monoclonal Blend)	0414200	100x10mL
Gamma-clone® Anti-C (Monoclonal)	0066421	1x5mL
Gamma-clone® Anti-E (Monoclonal)	0066422	1x5mL
Gamma N-HANCE	0705410	10x10mL

Product Name	Product Code	Size
Gamma N-HANCE	0705400	100x10mL
Gamma-clone® Anti-IgG-C3d (Murine Monoclonal)	0401010	10x10mL
Gamma-clone® Anti-IgG-C3d (Murine Monoclonal)	0401000	100x10mL
Gamma-clone® Anti-IgG-C3d (Murine Monoclonal) (Green)	0409710	10x10mL
Gamma-clone® Anti-IgG-C3d (Murine Monoclonal) (Green)	0409700	100x10mL
Gamma-clone® Anti-IgG (Murine Monoclonal)	0401510	10x10mL
Gamma-clone® Anti-IgG (Murine Monoclonal)	0401500	100x10mL
Gamma-clone® Anti-IgG (Murine Monoclonal) (Green)	0409210	10x10mL
Gamma-clone® Anti-IgG (Murine Monoclonal) (Green)	0409200	100x10mL
Gamma-clone® Anti-C3b,-C3d (Murine Monoclonal)	0004068	1x5mL

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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

## 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.

**MEDICAL CONDITIONS POSSIBLY AGGRAVATED:** None known.



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## 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.

## 5. FIRE-FIGHTING MEASURES

**ESTIMATED EXPLOSIVE LIMITS (% By volume in air):** LEL: N/A UEL: N/A FLASH POINT: 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 HAZARDS:** Avoid breathing vapors or dusts. Keep upwind.

## 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE 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, STORAGE AND SPECIFIC USE

**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.

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**EYE 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.

**CLOTHING/GLOVES:** 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.

**HEAD/ FOOT PROTECTION:** Hood, surgical caps, boots and shoe covers should be worn in areas with significant quantities of infectious materials.

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

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



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212 °F                      SPECIFIC GRAVITY: 1 (H<sub>2</sub>O=1)      pH: 6-8  
MELTING POINT: 32 °F                      % VOLATILE BY WEIGHT: N/A  
VAPOR PRESSURE: 18 mm Hg                EVAPORATION RATE: N/A  
VAPOR DENSITY: N/A (Air=1)               SOLUBILITY IN WATER: N/A  
VOLATILE ORGANIC COMPOUNDS (VOC): 0 lbs/gal (EPA Ref. Methods 24)  
APPEARANCE/ODOR: All products are a clear colorless to light amber liquid except:  
Anti-A – clear blue liquid  
Anti-IgG Green – clear green liquid  
Anti-IgG-3Cd Green – clear green liquid

## 10. STABILITY AND REACTIVITY

STABILITY: Stable      CONDITIONS TO AVOID: Fire and excessive heat. May decompose in heat.  
HAZARDOUS POLYMERIZATION: Will not occur.  
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.

## 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. Glycine is a non-essential amino acid that is relatively non-toxic. Extremely high particulate concentrations may cause coughing and eye irritation. If large quantities are ingested, nausea may occur.  
CHRONIC EFFECTS: No information found.  
LISTED CARCINOGENS: None.

## 12. ECOLOGICAL INFORMATION

No data available.

## 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Disposal must be at an approved waste disposal facility and in accordance with applicable Federal, State and Local laws and regulations. Contact the District Director of the Environmental Protection Agency and/or state regulatory agency for appropriate requirements.

## 14. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: N/A                      HAZARD CLASS: N/A      ID#: N/A                      PACKING GROUP: N/A

## 15. REGULATORY INFORMATION

TSCA: All components of this product are listed on the TSCA inventory.  
CERCLA REPORTABLE QUANTITY: None

SARA Title III: Section 302: None  
Section 312: None



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CLEAN AIR AMENDMENTS-HAZARDOUS AIR POLLUTANTS (HAPS): None  
CALIFORNIA STATE PROPOSITION 65: None

Section 313: None

### 16. OTHER INFORMATION

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

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