



MATERIAL SAFETY DATA SHEET/ SAFETY DATA SHEET

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

This Material Safety Data Sheet (Safety Data Sheet) is for the following products:

MANUFACTURER:

Immucor, Inc.

3130 Gateway Drive

Norcross, GA 30071

Manufacturer's Phone: 855-466-8267 (US and Canada)

770-441-2051

Emergency Phone: 855-466-8267 (US and Canada)

AUTHORIZED REPRESENTATIVE (Europe):

Immucor Medizinische Diagnostik GmbH

Adam-Opel-Strasse 26 A

63322 Rodermark

Germany

Authorized Rep. Phone: +49 6074 84200

Emergency Phone: +49 6074 84200

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,B (Murine Monoclonal Blend)	0414210	10x10mL
Gamma-clone® Anti-C (Monoclonal)	0066421	1x5mL
Gamma-clone® Anti-E (Monoclonal)	0066422	1x5mL
Gamma N-HANCE	0705403	3x10mL

Product Name	Product Code	Size
Gamma N-HANCE	0705410	10x10mL
Gamma-clone® Anti-IgG-C3d (Murine Monoclonal)	0401010	10x10mL
Gamma-clone® Anti-IgG-C3d (Murine Monoclonal) (Green)	0409703	3x10mL
Gamma-clone® Anti-IgG-C3d (Murine Monoclonal) (Green)	0409710	10x10mL
Gamma-clone® Anti-IgG (Murine Monoclonal)	0401510	10x10mL
Gamma-clone® Anti-IgG (Murine Monoclonal) (Green)	0409203	3x10mL
Gamma-clone® Anti-IgG (Murine Monoclonal) (Green)	0409210	10x10mL
Gamma-clone® Anti-C3b,-C3d (Murine Monoclonal)	0004068	1x5mL

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

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2. HAZARDS IDENTIFICATION



Hazard pictogram:

GHS07

Warning: H302 Harmful if swallowed

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P281 Use personal protective equipment as required

Hazardous Material Identification System (HMIS III)

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B



R-Phrase: 22

S-Phrases: N/A

Precautions

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.

Acute Toxicity, oral, Category 4

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	CONCENTRATION
Glycine	56-40-6	1-10%
Sodium Azide	26628-22-8	0.1%

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.



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5. FIRE-FIGHTING MEASURES

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: N/A

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</u> <u>TLV</u>	<u>ACGIH-STEL/CEIL(C)</u>
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 ₃ vapor C 0.29 mg/m ³ as NaN ₃

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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Evaporation Rate:	N/A
Color:	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	Vapor Pressure:	18 mm Hg
Odor:	N/A	Vapor Density:	N/A (Air=1)
pH:	6-8	Density:	Not determined
Boiling Point:	212 °F	Specific Gravity (H₂O = 1)	1
Flash Point:	N/A	Solubility in Water	N/A

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.
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. 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

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.



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14. TRANSPORTATION 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

DISCLAIMER: The information contained herein is based on data considered accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly disclaimed for loss or injury arising out of use of this information or the use of any materials designated.