1. IDENTIFICATION

This 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)

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Program Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transfusion Medicine, Comprehensive/Limited</td>
<td>J</td>
<td>J: 5 x 2 mL, 5 x 3 mL, 1 x 2 mL</td>
</tr>
<tr>
<td>Transfusion Medicine Automated Testing</td>
<td>J1</td>
<td>J1: 5 x 2 mL, 5 x 3 mL</td>
</tr>
<tr>
<td>Transfusion Medicine Educational Challenges</td>
<td>JE1</td>
<td>Paper and/or wet specimen</td>
</tr>
<tr>
<td>Transfusion Medicine Automated, Educational Challenges</td>
<td>JATE1</td>
<td>Paper and/or wet specimen</td>
</tr>
<tr>
<td>Transfusion Medicine Competency Assessment – Comprehensive Transfusion Medicine</td>
<td>TMCA</td>
<td>2 x 2 mL, 2 x 3 mL, 1 x 2 mL</td>
</tr>
<tr>
<td>Transfusion Medicine Competency Assessment – Direct Antiglobulin Test</td>
<td>TMCAD</td>
<td>2 x 2 mL</td>
</tr>
<tr>
<td>Transfusion Medicine, Electronic Crossmatch</td>
<td>EXM</td>
<td>3 red blood cell suspensions</td>
</tr>
<tr>
<td>Platelet Serology</td>
<td>PS</td>
<td>3 x 3 mL</td>
</tr>
<tr>
<td>Direct Antiglobulin Test</td>
<td>DAT</td>
<td>3 x 2 mL</td>
</tr>
<tr>
<td>Red Blood Cell Antigen Typing</td>
<td>RBCAT</td>
<td>2 x 2 mL</td>
</tr>
</tbody>
</table>

SPECIFIC USE: For Proficiency Testing Only.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

RED BLOOD CELL INGREDIENTS:

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dextrose</td>
<td>50-99-7</td>
<td>1-5%</td>
</tr>
<tr>
<td>Chloramphenicol</td>
<td>56-75-7</td>
<td>0.25-0.33mg/mL</td>
</tr>
<tr>
<td>Neomycin Sulfate</td>
<td>1405-10-3</td>
<td>0.068-0.1mg/mL</td>
</tr>
<tr>
<td>Gentamycin Sulfate</td>
<td>1405-41-0</td>
<td>0.05 mg/mL</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>0.1%</td>
</tr>
</tbody>
</table>

SERUM / PLASMA INGREDIENTS:

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>0.1%</td>
</tr>
</tbody>
</table>
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:** Persons with pre-existing skin or eye problems are more susceptible to effects. Jaw and tooth abnormalities, impaired kidney, liver and respiratory function may occur.

5. FIRE-FIGHTING MEASURES

**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

**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.
RED BLOOD CELL INGREDIENTS:

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION</th>
<th>OSHA PEL-TWA</th>
<th>ACGIH-TWA TLV</th>
<th>ACGIH-STEI/CEIL (C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dextrose</td>
<td>50-99-7</td>
<td>1-5%</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Chloramphenicol</td>
<td>56-75-7</td>
<td>0.25-0.33mg/mL</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Neomycin Sulfate</td>
<td>1405-10-3</td>
<td>0.068-0.1mg/mL</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Gentamycin Sulfate</td>
<td>1405-41-0</td>
<td>0.05 mg/mL</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

SERUM / PLASMA INGREDIENTS:

- Sodium Azide 26628-22-8 0.1% N/A N/A C 0.11 as HN₃ vapor C 0.29 as NaN₃

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical State: Liquid
- Evaporation Rate (Butyl Acetate=1.0): N/A
- Odor: N/A
- Vapor Pressure: 18 mm Hg
- pH: 6-8
- Boiling Point: 212 °F
- Flash Point: N/A
- Density: Not determined
- % Volatile by weight: N/A
- Specific Gravity (H₂O = 1): 1
- Solubility in Water: N/A
- Volatile Organic Compounds (VOC): 0 lbs/gal (EPA Ref. Methods 24)

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

CANADA: These products have been classified in accordance with the hazard criteria of the Controlled Products Regulations and this SDS contains all information required by the Controlled Products Regulations.

16. OTHER INFORMATION

The packaging of these products (dropper bulb) may contain dry natural rubber.

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.

REVISION DATE: November 6, 2014