# MATERIAL SAFETY DATA SHEET

## SIMULATED RED BLOOD CELLS

### 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Demo Dose® Simulated Red Blood Cells Rh – A+, B+, AB+, O+ Rh – A-, B-, AB-, O-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code(s):</td>
<td>06-93-6007N, 06-93-6006N, 06-93-6004N, 06-93-6005N 06-93-6003N, 06-93-6002N, 06-93-6000N, 06-93-6001N</td>
</tr>
<tr>
<td>Recommended Use:</td>
<td>Used exclusively as an educational resource for training purposes only. Contains no blood or blood products. Not to be injected or infused in humans or animals.</td>
</tr>
<tr>
<td>MSDS FID:</td>
<td>106468</td>
</tr>
<tr>
<td>Date Prepared:</td>
<td>02/22/14</td>
</tr>
</tbody>
</table>

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight / %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xanthan Gum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Benzoate Powder</td>
<td>532-32-1</td>
<td></td>
</tr>
<tr>
<td>Potassium Sorbate</td>
<td>24634-61-5</td>
<td></td>
</tr>
<tr>
<td>Citric Acid</td>
<td>77-92-9</td>
<td></td>
</tr>
<tr>
<td>FD &amp; C Red 40 Granular</td>
<td>25956-17-6</td>
<td></td>
</tr>
</tbody>
</table>

**SUPPLIER**

Pocket Nurse, Incorporated
610 Frankfort Road
Monaca, PA 15061-2218 USA

**CONTACT INFORMATION**

T 800-225-1600
F 800-763-0237
[www.pocketnurse.com](http://www.pocketnurse.com) ● info@pocketnurse.com
2. COMPOSITION/INFORMATION ON INGREDIENTS***OPTION B***

Product Description: 300-350 mL viscous purified water, colored red to simulate red blood cells with preservatives to prevent microbial growth. All ingredients are food grade, USP/FCC, Kosher

Ingredients: Proprietary mixture developed by Pocket Nurse, Incorporated, and protected as a Trade Secret.

3. HAZARDS IDENTIFICATION

Emergency Overview: Avoid contact with skin or eyes, or clothing, may cause eye and skin irritation, and/or staining of skin and clothes. If accidentally ingested in large amounts, may cause gastric irritation.

Hazard Class: Not regulated; non-hazardous; Red, odorless solution. Contains no blood or blood products

Health Hazard: No significant health hazard expected under normal storage and handling conditions

Eyes: may cause irritation; Skin: may cause irritation and/or staining; Ingestion: gastrointestinal discomfort; Inhalation not anticipated

4. FIRST AID MEASURES

Eyes: Irrigate thoroughly with water (at least 15 minutes). If irritation persists, seek medical attention

Skin: Wash thoroughly with soap and water (at least 15 minutes). Seek medical attention if irritation persists; Wash stained clothing before reuse

Ingestion: No ingestion anticipated from normal handling. If ingested and person is conscious, drink plenty of water and seek medical attention if any discomfort

Inhalation: No inhalation anticipated with normal handling. Product is a liquid, > 90% purified water.

Other: After first aid, get appropriate medical attention as needed

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing media appropriate for surrounding fire

NFPA Rating: Health: 0; Fire: 0; Reactivity: 0

Fire Fighting Procedures: Normal precautions against smoke inhalation; do not enter any enclosed or confined space without wearing full protective clothing and Self-Contained Breathing Apparatus (SCBA) approved for firefighting
Flash Point and Method: Not applicable – Non-combustible liquid
Flammable Limits: Not applicable
Autoignition Temperature: Not applicable

6. ACCIDENTAL RELEASE MEASURES
General: Simulated Blood Cell bags are stable at room temperature, under normal storage and handling conditions
Spill/Leak Procedures: Contain spill with appropriate absorbent material and dispose according to local regulations
Personal Precautions: Wear appropriate Personal Protective Equipment (PPE) based on accidental spill: gloves; gown; goggles if indicated
Environmental Precautions: Non-hazardous
Recovery: Dispose of product in accordance with all applicable local, state, and federal regulations

7. HANDLING AND STORAGE
General Storage: Store at room temperature. Check for cracks or dislodged caps before use. Do not freeze.
Handling: Personal Protective Equipment: gloves; gown/lab coat; safety goggles are recommended.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (NORMAL USE)
Occupational Exposure: Avoid contact with eyes, skin, and clothing. Wear appropriate PPE
Engineering Measures: Use local exhaust
PPE: Respiratory – Normally not required
Hand – gloves: latex and non-latex per policy
Eye – safety goggles
Clothing – gowns/lab coat; lab apron

9. PHYSICAL/CHEMICAL PROPERTIES
Appearance and odor: Red odorless solution
10. STABILITY AND REACTIVITY

Stability: Stable if stored at recommended conditions
Conditions to Avoid: Contains food coloring and may stain skin and clothes
Hazardous Decomposition Products: None known
Materials to Avoid: Do not mix with other simulated products

11. TOXICOLOGICAL INFORMATION

Eye Effects: Eye irritant if splashed in eye
Skin: Irritant/Staining
Ingestion: No hazard anticipated incidental to normal simulated use
Inhalation: No hazard anticipated incidental to normal simulated use
Acute: See Section 3
Chronic: None identified
Carcinogenicity: Components not listed as carcinogens

12. ECOLOGICAL INFORMATION

Environmental: Data not available
Ecotoxicological: Data not yet available
Other: None known

13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with all applicable local, state, and federal regulations

14. TRANSPORTATION INFORMATION

Not regulated: Contains no blood or blood products; Not to be injected or infused in humans or animals
ICAO/IAT/IMDG Class: Not regulated
15. REGULATORY INFORMATION

United States: SARA Title III (Superfund Amendments and Reauthorization Act)
Section 311 Hazard Categories (40 CFR 370) – None
Section 312 Threshold Planning Quantities (40 CFR 370): The threshold Planning Quantity (TPQ) of this product if treated as a mixture is 10,000 lbs. This product contains the following ingredients with a TPQ of less than 10,000 lbs. - None
Section 313 Reportable Ingredients (40 CFR 372) - This product does not contain any toxic chemicals subject to the reporting requirements of Section 313, Title III of SARA of 1986

TSCA

TSCA Inventory (40 CFR 710, Subpart b) – Not Applicable

Canada:

WHMIS (Workplace Hazardous Materials Information system) - Not a controlled product under WHMIS

General:

Symbols - Not classified as hazardous
Risk Phrases - Not classified as hazardous
Safety Phrases - Not classified as hazardous
Supply Classification - Not regulated

16. OTHER INFORMATION

NFPA RATING:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
<th>SPECIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NONE</td>
</tr>
</tbody>
</table>

NFPA Degree of Hazard Code: 4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

NFPA = National Fire Protection Association

Disclaimer: Pocket Nurse Inc., believes that the statements, technical information, and recommendations contained in this Material Safety Data Sheet are reliable and supplied for information purposes only. The information listed has been provided by others and is given without warranty or guarantee of any kind, expressed or implied, and Pocket Nurse Inc., disclaims any liability for damage, injury, loss or expense that results from the direct or consequential use of the above data. Users should consider this information only as a supplement to other information gathered by them and must make independent determinations of suitability and accuracy of information from all sources to assure proper use and disposal of these materials, and the safety and health of employees and customers.