

# MATERIAL SAFETY DATA SHEET

## SIMULATED RED BLOOD CELLS



INSTRUCTIONAL USE ONLY. NOT FOR HUMAN OR ANIMAL USE.

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Demo Dose® Simulated Red Blood Cells  
Rh – A<sup>+</sup>, B<sup>+</sup>, AB<sup>+</sup>, O<sup>+</sup>  
Rh – A<sup>-</sup>, B<sup>-</sup>, AB<sup>-</sup>, O<sup>-</sup>

Product Code(s): 06-93-6007N, 06-93-6006N, 06-93-6004N, 06-93-6005N  
06-93-6003N, 06-93-6002N, 06-93-6000N, 06-93-6001N

Recommended Use: 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.

MSDS FID: 106468  
Date Prepared: 02/22/14

#### SUPPLIER

Pocket Nurse, Incorporated  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

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

CHEMICAL NAME	CAS No.	WEIGHT / %
Xanthan Gum		
Sodium Benzoate Powder	532-32-1	
Potassium Sorbate	24634-61-5	
Citric Acid	77-92-9	
FD & C Red 40 Granular	25956-17-6	

## 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.

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## 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

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## 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

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## 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

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## 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

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## 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.

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## 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

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## 9. PHYSICAL/CHEMICAL PROPERTIES

Appearance and odor:	Red odorless solution
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## 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

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## 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 No evidence of carcinogenic, mutagenic, or teratogenic effects
Carcinogenicity:	Components not listed as carcinogens

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## 12. ECOLOGICAL INFORMATION

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

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## 13. DISPOSAL CONSIDERATIONS

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

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## 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

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## 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

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## 16. OTHER INFORMATION

<b>NFPA RATING:</b>	<b>HEALTH</b>	<b>= 0</b>
	<b>FLAMMABILITY</b>	<b>= 0</b>
	<b>REACTIVITY</b>	<b>= 0</b>
	<b>SPECIAL</b>	<b>= NONE</b>

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

NFPA = National Fire Protection Association

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