

IDENTITY (As Used on Label and List)

Simulated Blood

Section I

Manufacturer's Name Ward's Natural Science Establishment	Emergency Telephone Number Chemtrec 800-424-9300
Address (Number, Street, City, State, and ZIP Code) 5100 West Henrietta Road Rochester, NY 14692-9012	Telephone Number for Information 800-962-2660
	Date Prepared August 12, 2004
	Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits	% Optional
Inorganic Salts (proprietary information)					0-12%
Distilled water	7732-18-5				88-99%
Food coloring mixture FDC #40 and FDC #3					<0.1%
inert microcomponents (proprietary information)					<0.1%
					<0.1%

Section III - Physical/Chemical Characteristics

Boiling Point	100C (210F)	Specific Gravity (H₂O = 1)	1
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate n-butyl acetate = 1	N/A

Solubility in Water
Completely soluble.

Appearance and Odor
Red color; odorless

Section IV - Fire and Explosion Hazard

Flash Point <i>(Method Used)</i>	Flammable Limits	LEL	UEL
N/A	N/A	N/A	N/A

Extinguishing Media

Use media best suited for surrounding fire

Special Fire Fighting Procedures

No special procedures. See above.

Unusual Fire and Explosive Hazards

N/A

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Excessive temperature and heat

Incompatibility *(Materials to Avoid)*

N/A

Hazardous Decomposition or Byproducts

Thermal Decomposition may produce carbon dioxide and/or carbon monoxide

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?

Health Hazards *(Acute and Chronic)*

The Full Toxicological properties have not been thoroughly tested. This product may be harmful by injection. Eye or skin contact may cause irritation. Mr. Smith (Type A):LD50 Oral rat 264 mg/kg (in concentrated form). Mr Jones (Type B):LD50 oral rat 3000 mg/kg (in concentrated form). Mr. Green (Type AB): LD50 oral rat 264 mg/kg (in concentrated form). Ms Brown (Type O): N/A.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?

Signs and Symptoms of Exposure

Irritation of eyes and skin possible with contact.

Medical Conditions Generally Aggravated by Exposure**Emergency and First Aid Procedures**

Skin contact: flush with large amounts of water. Eyes: Flush thoroughly with water, including upper and lower lids. If irritation develops or persists, get medical attention. Ingestion: If conscious, give one or two glasses of water; contact physician.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Absorb with vermiculite, paper towels, or other absorbent material. Place in suitable container.

Waste Disposal Method

Discharge, treatment, and disposal may be subject to Federal, State/Provincial and local regulations.

Precautions to be Taken in Handling and Storage

Storage code: Green (General). Store in cool, dry place.

Other Precautions

For educational use only. Not for clinical or diagnostic use. To be used only with direct supervision of a qualified professional specifically trained in laboratory procedures. This is not real Blood. Do not take or use internally. Do not inject. Wash hands thoroughly with soap and water after used. Not for drug, food or household use. Keep out of reach of children.

Section VIII - Control Measures

Respiratory Protection *(Specify Type)*

Not needed under normal laboratory conditions with adequate ventilation.

Ventilation	Local Exhaust none needed	Special None required
	Mechanical None needed	Other no

Protective Gloves	rubber (butyl/nitrile)	Eye Protection	Chemical safety goggles
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Other Protective Clothing or Equipment

Lab coat and apron; eyewash station in proximity (within 15 sec. Of work station)

Work/Hygenic Practices

Wear protective equipment. Wash hands thoroughly after use.

FOR ADDITIONAL INFORMATION:

Contact Ward's Safety Manager during business hours at (800) 962-2660.

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