



SAFETY DATA SHEET

Section 1 Product and Company Identification

Chemical Product or Sample Name: TrueClot® Blood Simulant Pre-mix

CAS Number: Mixture

Synonyms: None

Recommended Use(s): Medical training; research and development

Company Information: Luna Innovations Incorporated
706 Forest Street, suite A
Charlottesville, VA 22903

e-mail: trueclot@lunainc.com

Web: www.trueclot.com

Telephone: (434) 220-9444 (M-W; 9:00 a.m. – 5:00 p.m. EDT)

Fax: (434) 972-9956

Section 2 Hazards Identification

EMERGENCY OVERVIEW

Hazardous Materials Identification System (HMIS III)

Physical state: Liquid	HEALTH: 0
Color: Red	FLAMMABILITY: 0
Odor: None	PHYSICAL HAZARDS: 0
	Personal Protective Equipment: See SDS Section 8.
Health Hazard Signal Words / Route of Entry:	POSSIBLE SKIN AND EYE IRRITANT
Other Hazards / Comments:	NONE

OSHA /HCS Status: This material is not considered to be hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

POTENTIAL HEALTH EFFECTS

Potential routes of entry: Eyes, skin lesion.

Inhalation: N/A

Skin Contact: May cause skin irritation

Eye Contact: May cause eye irritation

Ingestion: Avoid ingestion, unknown effects.



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Existing conditions aggravated by exposure: N/A

See Section 11 for additional toxicological information

POTENTIAL ENVIRONMENTAL EFFECTS

Unknown

Section 3 Composition and Information on Ingredients

Nanomaterial or contains nanomaterials (engineered) with at least one dimension of <100 nm)? No

Component(s)	CAS #	Vol %
Surfactant	Unavailable	0.1-5%
Proprietary Polymer	Unavailable	0.1-5%
Proprietary Pigments	Unavailable	0.1-5%
Water	7732-18-5	85-99%

Section 4 First Aid Measures

Eye Contact: Rinse with water for 15 minutes, seek medical attention if irritation persists.
Skin Contact: Rinse with soap and water, seek medical attention if irritation persists.
Inhalation: N/A
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Seek medical attention if symptoms appear.
Notes to physician: N/A

Section 5 Fire Fighting Measures

See Section 9 for flammable properties.	
Special Fire Fighting Procedures:	None
Extinguishing media:	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.
Protective Equipment:	None None
Unusual Fire or Explosion Hazards:	
Hazardous combustion products:	Unknown

Section 6 Accidental Release Measures

Isolate the spill and deny entry to unnecessary and unprotected personnel.

Personal Protection: Wear PPE per Section 8.
Spill Procedures: Isolate spill and contain with absorbent materials.
Environmental Precautions and Cleanup Methods: Dispose of in accordance with federal and state waste regulations



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Section 7 Handling and Storage

Precautions: None
Storage: None

Section 8 Exposure Controls and Personal Protection

Engineering Controls/ Ventilation: None
Eye Protection: Wear ANSI approved safety goggles/glasses if there is a risk of splashing.
Respiratory Protection: None
Skin Protection: Wear nitrile or latex gloves if user has sensitive skin or is prone to skin irritation.

Section 9 Physical and Chemical Properties

Appearance (color, physical form, shape): Red Liquid
Odor Characteristics: Unknown
Odor Threshold: Unknown
pH: 7 (estimated)
Flash Point: Unknown
Flammability (solid, gas): Unknown
Initial Boiling Point and Boiling Range: >100°C (estimated)
Evaporation Rate: Unknown
Melting/Freezing Point: Unknown
Upper/Lower Flammability or Explosive Limits: Unknown
Vapor Pressure: Unknown
Vapor Density: Unknown
Specific Gravity or Relative Density: Unknown
Solubility (specify solvent): Soluble in water
Auto-ignition Temperature: Unknown
Decomposition Temperature: Unknown
% Volatile: Unknown
Partition Coefficient: Unknown
Viscosity: Variable depending on formulation (typically 10-17 centistokes kinematic viscosity)

Section 10 Stability and Reactivity

Stability: N/A
Hazardous polymerization: N/A
Hazardous Decomposition: N/A
Products:
Incompatibilities: N/A
Conditions to avoid: N/A



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Section 11 Toxicological Information

Carcinogenicity

Carcinogenic listed by IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Carcinogenic by NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
Carcinogenic by OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Acute Toxicity

Acute Effects: Information not available

Section 12 Environmental Information

Ecotoxicological Information: Unknown
Chemical Fate Information: Unknown

Section 13 Disposal Considerations

Material may be diluted and safely washed down a sink or disposed of in regular trash. After use dispose of material safely and in accordance with local, state, and federal regulations. It is the responsibility of the waste generator to determine the proper waste identification and disposal methods.

Section 14 Transportation Information

DOT:

Proper Shipping Name: NOT REGULATED
Hazard Class:
Packing Group:
UN Number:

IATA:

Proper Shipping Name: NOT REGULATED
Hazard Class:
Packing Group:
UN Number:

Additional labeling (if required):

Section 15 Regulatory Information

TSCA Inventory Status: All components TSCA listed or exempt

Section 16 Other Information



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Research Notice: The information provided herein is for a research sample and represents the results of preliminary investigations. This research sample is for use by qualified research personnel only. It is offered in good faith, consistent with 29 CFR 1910.1200, recognizing that additional information, including data on hazardous properties, may be developed at a later time.

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