

7044

TrueClot™ Blood Simulant Concentrate

SB 51007

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PP05115



# SAFETY DATA SHEET

## Section 1 Product and Company Identification

**Chemical Product or Sample Name:** TrueClot™ Blood Simulant Concentrate  
**CAS Number:** Mixture  
**Synonyms:** None  
**Recommended Use(s):** Medical training; research and development  
**Company Information:** Luna Innovations Incorporated  
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 Charlottesville, VA 22903  
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## Section 2 Hazards Identification

### EMERGENCY OVERVIEW

#### Hazardous Materials Identification System (HMIS III)

**Physical state:** Liquid  
**Color:** Red  
**Odor:** None

**HEALTH:** 0  
**FLAMMABILITY:** 0  
**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.  
**Existing conditions aggravated by exposure:** N/A



# SAFETY DATA SHEET

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	90-99
Proprietary Polymer	Unavailable	0.1-5%
Proprietary Pigments	Unavailable	0.1-5%
Antimicrobial agent	Unavailable	0.05-0.1%

### 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.	
<b>Special Fire Fighting Procedures:</b>	None
<b>Extinguishing media:</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.
<b>Protective Equipment:</b>	None
<b>Unusual Fire or Explosion Hazards:</b>	
<b>Hazardous combustion products:</b>	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:** Do not put down drain and see Section 13. Dispose of in accordance with federal and state waste regulations

### Section 7 Handling and Storage

**Precautions:** None  
**Storage:** None



# SAFETY DATA SHEET

## 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

## 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



## SAFETY DATA SHEET

### 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

Recover or recycle if possible.

Do not discard into any sewers, on the ground, or into any body of water.

Upon completion of tests, 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:** Mixture is for **research and development use only**.  
All components TSCA listed or exempt



## SAFETY DATA SHEET

### Section 16 Other Information

**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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