

Safety Data Sheet

Simulated Blood

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Simulated Blood
Recommended Use: Science education applications
Synonyms: N/A
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

No known OSHA hazards.

GHS Classification:

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.
May cause eye irritation.
May cause gastrointestinal discomfort.
May cause irritation to respiratory tract.
May cause irritation to skin.

Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u> | <u>CAS #</u> | <u>%</u> |
|--|--------------|----------|
| The composition of this mixture is proprietary and is protected as a Trade Secret. | N/A | 100 |

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No adverse health affects expected from the clean-up of spilled material.
No special spill clean-up considerations. Collect and discard in regular trash.

Section 7 Handling and Storage

Storage: Keep container tightly closed in a cool, well-ventilated place.

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Storage Code: Green - general chemical storage

Section 8 Protection Information

| Chemical Name | ACGIH | | OSHA PEL | |
|--------------------------------------|--|--------|----------|--------|
| | (TWA) | (STEL) | (TWA) | (STEL) |
| No data available | N/A | N/A | N/A | N/A |
| Control Parameters | | | | |
| Engineering Measures: | No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use. | | | |
| Personal Protective Equipment (PPE): | Lab coat, apron, eye wash, safety shower. | | | |
| Respiratory Protection: | No respiratory protection required under normal conditions of use. | | | |
| Eye Protection: | Wear chemical splash goggles when handling this product. Have an eye wash station available. | | | |
| Skin Protection: | Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. | | | |
| Gloves: | Natural latex,, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride | | | |

Section 9 Physical Data

| | |
|------------------------------------|--|
| Formula: N/A, product is a mixture | Vapor Pressure: N/A |
| Molecular Weight: N/A | Evaporation Rate (BuAc=1): N/A |
| Appearance: Red Liquid | Vapor Density (Air=1): N/A |
| Odor: None | Specific Gravity: N/A |
| Odor Threshold: No data available | Solubility in Water: Soluble |
| pH: No data available | Log Pow (calculated): No data available |
| Melting Point: No data available | Autoignition Temperature: No data available |
| Boiling Point: No data available | Decomposition Temperature: No data available |
| Flash Point: No data available | Viscosity: No data available |
| Flammable Limits in Air: N/A | Percent Volatile by Volume: N/A |

Section 10 Reactivity Data

| | |
|---------------------------|---|
| Reactivity: | No data available |
| Chemical Stability: | Stable under normal conditions. |
| Conditions to Avoid: | None known. |
| Incompatible Materials: | Acids, Caustics (bases), Water-reactive materials |
| Hazardous Polymerization: | Will not occur |

Section 11 Toxicity Data

| | | | | |
|-------------------|---|----------------|----------------|-----------------|
| Routes of Entry | Inhalation, ingestion, eye or skin contact. | | | |
| Symptoms (Acute): | N/A | | | |
| Delayed Effects: | No data available | | | |
| Acute Toxicity: | | | | |
| Chemical Name | CAS Number | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| No data available | N/A | Not determined | Not determined | Not determined |
| Carcinogenicity: | | | | |
| Chemical Name | CAS Number | IARC | NTP | OSHA |
| No data available | N/A | Not listed | Not listed | Not listed |
| Chronic Effects: | | | | |
| Mutagenicity: | No evidence of a mutagenic effect. | | | |
| Teratogenicity: | No evidence of a teratogenic effect (birth defect). | | | |

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Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: See Section 2
Chronic: N/A

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

| Chemical Name | CAS Number | Eco Toxicity |
|---------------|------------|--------------|
| N/A | N/A | |

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Section 14

Transport Information

| Ground - DOT Proper Shipping Name: | Air - IATA Proper Shipping Name: |
|-------------------------------------|--|
| Not regulated for transport by DOT. | Not regulated for air transport by IATA. |

Section 15

Regulatory Information

TSCA Status: A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

| Chemical Name | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
|-------------------|------------|------------|----------|-----------|-----------|---------------|
| No data available | N/A | No | No | No | No | No |

Section 16

Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

| | | | |
|--------|---|------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists | NTP | National Toxicology Program |
| CAS | Chemical Abstract Service Number | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL | Permissible Exposure Limit |
| DOT | U.S. Department of Transportation | ppm | Parts per million |
| IARC | International Agency for Research on Cancer | RCRA | Resource Conservation and Recovery Act |
| N/A | Not Available | SARA | Superfund Amendments and Reauthorization Act |
| | | TLV | Threshold Limit Value |
| | | TSCA | Toxic Substances Control Act |
| | | IDLH | Immediately dangerous to life and health |

