

Safety Data Sheet

Venous Bleu/Ivy SimBlood

Section 1- Identification

- 1.1 Product Identifier: Venous SimBlood; Venous Bleu SimBlood; IVY SimBlood
1.2 General Use: Simulated blood used in venipuncture and IV administration trainers
1.3 Manufacturer: Remedy Simulation Group, Inc.
140 East Walnut Street
Perkasie, PA 18944

Section 2 – Hazard(s) Identification

2.1 Classification of the Substance or Mixture: Not a hazardous substance or mixture per United States Occupational Safety and Health Administration (OSHA) 2012 Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Regulation (EC) No 1272/2008 and subsequent amendments.

- 2.2 GHS Label elements, including precautionary statements
Hazard Pictogram(s): none
Signal word: none

Hazards not otherwise classified (HNOC) or not covered by GHS – none

General Precautions:

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Section 3 – Composition/Information on Ingredients

3.1 Substances

No ingredients are hazardous per 2012 OSHA Regulation 29 CFR 1910.1200 criteria.

Section 4 – First-Aid Measures

4.1 Description of first aid measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately. Eye

Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention. Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

- 4.2 Most important symptoms and effects, both acute and delayed - None known.
4.3 After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures

5.1 Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam

5.2 Special hazards arising from the substance or mixture: None known.

5.3 Advice for firefighters: Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off “fuel” to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures: Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

6.2 Environmental precautions: No special environmental precautions required.

6.3 Methods and material for containment and cleaning up: absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution

6.4 Reference to other sections: See Section 3 for Hazardous Ingredients; Section 8 for Exposure Controls; and Section 13 for Disposal.

Section 7 – Handling and Storage

7.1 Precautions for safe handling: Use good general housekeeping procedures. Wash hands after use.

7.2 Conditions for safe storage, including any incompatibilities: Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

7.3 Specific end use(s): These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

Section 8 – Exposure Controls/Personal Protection

8.1 Control parameters: none defined

8.2 Exposure controls:

Respiratory Protection: Use of this product does not require the use of a respirator. Should other occupational exposure factors warrant a respirator, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate cartridges.

Hand Protection: Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

Eye Protection: Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye

protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Other Protective Clothing/Equipment: Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance: Liquid, characteristic color

Odor/Threshold: Mild odor

pH: 7 - 8

Melting Point/Freezing Point: ~32 °F

Low/High Boiling Point: ~212 °F

Flash Point: >300 °F

Evaporation Rate: Not available

Flammability: f.p. at or above 200 °F

UEL/LEL: Not available

Vapor Pressure: None (Polymeric Resin)

Vapor Density (Air=1): >1

Specific Gravity (H₂O=1, at 4 °C): 1.01

Water Solubility: soluble

Partition coefficient: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: <100 centipoise

% Volatile: 90% (water)

Section 10 – Stability and Reactivity

10.1 Reactivity: No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.

10.2 Chemical stability: These products are stable at room temperature in closed containers under normal storage and handling conditions.

10.3 Possibility of hazardous reactions: Hazardous polymerization cannot occur.

10.4 Conditions to avoid: none known

10.5 Incompatible materials: strong bases and acids

10.6 Hazardous decomposition products: Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

Section 11 – Toxicological Information

11.1 Information on toxicological effects:

Skin Corrosion/Irritation: no data

Serious Eye Damage/Irritation: no data

Respiratory/Skin Sensitization: no data

Germ Cell Mutagenicity: no data
 Carcinogenicity: No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, NTP, or OSHA.
 Reproductive Toxicity: no data
 Specific Target Organ Toxicity – Single Exposure: no data
 Specific Target Organ Toxicity – Repeated Exposure: no data
 Aspiration Hazard: no data
 Acute Toxicity: no data
 Chronic Exposure: no data
 Potential Health Effects – Miscellaneous: no data

Section 12 – Ecological Information

12.1 Toxicity: calculated values based on components:

		Species	Calculated Result	Exposure Time
Toxicity to fish	LC50	Zebra Fish	224.0 mg/l	96h
	NOEC	Zebra Fish	45.7 mg/l	96h
	LC50	Lepomis macrochirus	489.5 mg/l	96h
Toxicity to other organisms	EC50	Daphnia similis	1,844.9 mg/l	48h
	NOEC	Daphnia similis	816.0 mg/l	48h
	EC50	Daphnia magna	3,019.0 mg/l	48h
	NOEC	Daphnia magna	2,040.0 mg/l	48h
Toxicity to algae	EC50	Selenastrum capricornutum	448.8 mg/l	96h
	NOEC	Selenastrum capricornutum	81.6 mg/l	96h
Toxicity to microorganisms	MEC90	Spirillum volutans	>16.4 mg/l	120 min

12.2 Persistence and Degradability: no data
 12.3 Bioaccumulative Potential: no data
 12.4 Mobility in Soil: no data
 12.5 Results of PBT and vPvB assessment: no data
 12.6 Other Adverse Effects: no data

Section 13 – Disposal Considerations

13.1 Waste treatment methods: Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

Section 14 – Transportation Information

Not regulated by DOT, IATA or IMDG

- 14.1 UN number: none
- 14.2 UN proper shipping name: none
- 14.3 Transport hazard class(es): not applicable 14.4 Packing group: not applicable
- 14.5 Environmental hazards: none known
- 14.6 Special precautions for user: none known
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable

Section 15 – Regulatory Information

15.1 Safety health and environmental regulations/legislation specific for the substance or mixture:

In the United States (EPA Regulations):

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

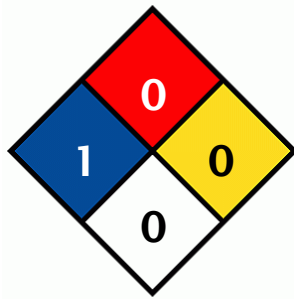
SARA 311/312 Hazards: none

California Proposition 65: This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

15.2 Chemical safety assessment: No chemical safety assessment has been carried out for this substance/mixture by the supplier.

Section 16 – Other Information

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NFPA

Version: 0

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Glossary: ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL- Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

Disclaimer: The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH).

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.