

SAFETY DATA SHEET (SDS)

Compliant with OSHA Hazard Communication Standard as defined in 29 CFR 1910.1200.
Prepared to UN-GHS Revision 3.

Revised on 30 October 2013

1) PRODUCT AND COMPANY INFORMATION**Product identifier:**

Trade name: ZEE MEDICAL SPRAY-ON BLOOD CLOTTER

Product Description: Blood clotting spray

Emergency telephone number:

Please call Chemtrec at 1-800-424-9300

Manufacturer/Supplier:

ARI

P.O. Box 510, Orchard Hill, GA 30266

Phone: 770-227-8222



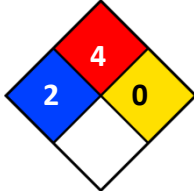
Fax: 770-227-9190

www.aripackaging.com

info@aripackaging.com

2) HAZARD IDENTIFICATION



- Hazard classifications of the chemical

 DANGER Flammable aerosol, category 1 <u>Extremely flammable aerosol</u> Keep away from heat, sparks, open flames, and hot surfaces—No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C)	 WARNING Gas under pressure, Dissolved gas <u>Contains gas under pressure; may explode if heated</u> Protect from sunlight. Store in a well-ventilated place.	NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme (Scale 0-4) NFPA:  HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 0 HMIS: <table border="1"> <tr> <td>HEALTH</td> <td>2</td> </tr> <tr> <td>FIRE</td> <td>4</td> </tr> <tr> <td>REACTIVITY</td> <td>0</td> </tr> </table>	HEALTH	2	FIRE	4	REACTIVITY	0
HEALTH	2							
FIRE	4							
REACTIVITY	0							

KEEP OUT OF REACH OF CHILDREN

3) Composition/Information on Ingredients

- Dangerous components of the mixture

Chemical name:	Identifier:	Concentration:
Propane 	CAS: 74-98-6	10-30%
Isobutane 	CAS: 75-28-5	40-70%

- Non-dangerous components of the mixture:

Chemical name:	Identifier:	Concentration:
Lidocaine	CAS: 137-58-6	0.1%-1%
Benzethonium Chloride	CAS: 121-54-0	0.1%-1%

4) FIRST-AID MEASURES

- **GENERAL ADVICE:** Have SDS or product label if medical advice is needed. Seek a medical professional or doctor if you feel unwell or if irritation(s) persist.
- **IF SWALLOWED:** Rinse mouth. Never give anything by mouth to an unconscious person.
- **IF INHALED:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do—continue rinsing.
- **IF ON SKIN:** Wash with soap and water.

5) FIRE-FIGHTING MEASURES

- **EXTINGUISHING METHODS:** Dry chemical, sand, or carbon dioxide after spray has stopped.
- **IF EXTINGUISHING METHODS ARE UNAVAILABLE:** Cool container with water if exposed to heat or flame, move container away from fire area if this can be done without further risk.
- **FIRE HAZARDS:** Contains gas under pressure, pressurized container: May explode if ignited or exposed to heat. Vapor is heavier than air and may travel a long distance to a source of ignition and flash back. Container may explode.
- **SUGGESTED EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:** No special measures are required.

6) ACCIDENTAL RELEASE MEASURES

- **IF ACCIDENTALLY RELEASED OR SPILLED:** Remove or eliminate all sources of ignition. Establish ventilation to keep atmospheric concentrations below limits. Avoid breathing vapors. Wear protective equipment. Keep unprotected persons away.
- **NEUTRALIZING CHEMICAL:** Not applicable
- **WASTE DISPOSAL METHOD:** Dispose of in accordance with state, local, and federal regulations. Prevent material from entering waterways or sewage. Container may be recycled if completely emptied.

7) HANDLING AND STORAGE

- **CONDITIONS FOR SAFE HANDLING:** Wear protective equipment. Follow instructions found on label.
- **CONDITIONS FOR SAFE STORAGE:** Do not expose to temperatures above 50°C/122°F. Store in a well-ventilated place. Protect from sunlight. Keep away from heat and other sources of ignition. Keep away from oxidizing agents.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical name:	Identifier:	PEL:	ACGIH:	NIOSH:
Propane	CAS: 74-98-6	1000 ppm	2500 ppm	1000 ppm
Isobutane	CAS: 75-28-5	N/A	N/A	800 ppm

- **VENTILATION REQUIREMENTS:** Good mechanical ventilation may be adequate for maintaining airborne concentrations below established exposure limits for large uncontrolled releases.
- **IF EXPOSURE LIMITS ARE EXCEEDED AND INHALED:** Use a NOISH approved respirator.
- **No personal protective equipment is recommended or required**

9) PHYSICAL AND CHEMICAL PROPERTIES

- **APPEARANCE:** Tan color
- **ODOR:** Medical-like
- **ODOR THRESHOLD:** Not determined or not applicable
- **pH:** Not determined or not applicable
- **VAPOR PRESSURE:** 46 psi at 70°F
- **DENSITY:** 0.56
- **SOLUBILITY:** Less than 0.1%
- **MELTING/FREEZING POINT:** Not determined or not applicable
- **BOILING POINT:** -43.7°F
- **FLAMMABLE EXPLOSIVE LIMITS (% volume in air):** 2.2-9.5
- **FLASH POINT (TCC closed cup):** <100°F
- **FLAME EXTENSION :** Extends flame
- **FLAMMABILITY:** Extremely flammable
- **AUTO-IGNITION TEMPERATURE:** Does not auto-ignite
- **DECOMPOSITION TEMPERATURE:** Not determined or not applicable
- **EVAPORATION RATE:** Not determined or not applicable
- **VISCOSITY:** Not determined or not applicable
- **VOLATILES BY VOLUME:** 30%

10) STABILITY AND REACTIVITY

- **CHEMICAL STABILITY:** Stable under normal conditions
- **HAZARDOUS POLYMERIZATION:** Can not occur
- **INCOMPATIBLE MATERIALS:** Strong oxidizing agents
- **HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, aldehydes, and acids
- **CONDITIONS TO AVOID:** Heat, sparks, open flames, ignition sources, and sunlight

11) TOXICOLOGICAL INFORMATION

- **Most likely routes of exposure:** inhalation, ingestion, and eye contact
- **Symptoms are more likely to increase the longer the exposure to the chemical**
- **Symptoms may include (but are not limited to):**
Dizziness, drowsiness, disorientation (confusion), excitation (hallucinations, euphoria); nausea, vomiting; unconsciousness; cardiac arrest (asphyxia); frostbite (contact with liquid); long-term intermittent exposure to high concentrations can cause nosebleeds, rhinitis, oral and nasal ulcerations, conjunctivitis, bloodshot eyes, anorexia, weight loss, lethargy, fatigue, shortness of breath, and damage to the CNS.
- The following mixture components are found on the National Toxicology Program Report: No components listed on National Toxicology Program Report
- The following mixture components are found on the International Agency for Research on Cancer Monograph list: No components listed on International Agency for Research on Cancer Monograph list

12) ECOLOGICAL INFORMATION

- **TOXICITY TO AQUATIC LIFE:** Not toxic to aquatic life
Do not expose to open waterways or dispose of product through drains or sewage
- **MOBILITY IN SOIL:** not determined or not applicable
- **PERSISTENCE AND DEGRADABILITY:** not determined or not applicable
- **BIOACCUMULATIVE POTENTIAL:** not determined or not applicable
- **PBT and vPvB ASSESSMENT:** not determined or not applicable

13) DISPOSAL CONSIDERATIONS

- Please refer to section 8 for proper personal equipment for use when disposing of container
- Please refer to local, state, and national regulations for proper disposal methods
- Offer surplus and non-recyclables to a licensed disposal company.
- Product, when completely emptied, may be recycled if allowed by local ordinances
- Empty product completely before placed in trash or introduced to a landfill as the product may still burst if heated or damaged

14) TRANSPORT INFORMATION

- **UN IDENTIFICATION NUMBER:** 1950
- **UN SHIPPING NAME:** Flammable Gas Aerosol
- **TRANSPORT HAZARD CLASS:** 2.1
- **DEPARTMENT OF TRANSPORTATION SHIPPING NAME:** Consumer Commodity
- **DEPARTMENT OF TRANSPORTATION HAZARD CLASS:** ORM-D (Until December 2020) or Limited Quantity

(continued on page 5)

(continued from page 4)

- **SHIPPING LABEL:** Flammable Gas, Limited Quantity



- **ENVIRONMENTAL HAZARDS:** Not a marine pollutant
- **INTERNATIONAL BULK CHEMICAL CODE:** Not determined or not applicable
- **SPECIAL SHIPPING PRECAUTIONS:** Ship container up-right without excessive load on top

15) REGULATORY INFORMATION

- The product is regulated by the Food, Drug, & Cosmetic Act which is found in 21 CFR 330.1 of the United States code
- The SDS is regulated by the OSH Act which is found in 29 CFR 1910.1200 of the United States code
- **EPA TSCA COMPONENTS:** Propane (74-98-6) and Isobutane (75-28-5)
- **SARA 302 COMPONENTS:** No components of mixture are subject to reporting
- **SARA 313 COMPONENTS:** No components of mixture are subject to reporting
- **MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** No components of mixture are subject to reporting
- **PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** No components of mixture are subject to reporting
- **NEW JERSEY RIGHT TO KNOW COMPONENTS:** No components of mixture are subject to reporting
- **CALIFORNIA PROP 65 COMPONENTS:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm

16) OTHER INFORMATION

- This SDS was completed using the most up to date information available at the time of its completion; however, no representation, warranty, or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself/herself as to the suitability and completeness of such information for his or her particular use. We do not accept any liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement. The SDS does not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
- Abbreviations and acronyms used: ACGIH: American Conference of Governmental Industrial Hygienists. CAS: Chemical Abstracts Service. CFR: Code of Federal Regulations. GHS: Globally Harmonized System. HMIS: Hazardous Materials Identification System. NFPA: National Fire Protection Association. NOISH: National Institute for Occupational Safety and Health. OSHA: Occupational Safety and Health Administration. PEL: Permissible Exposure Limit. SARA: Superfund Amendments and Reauthorization Act (regulation by the EPA). UN: United Nations.