

Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

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 Revision Number: 4

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name (as labeled):	Hemoban
Part/Item Number:	10801 (1 oz.)

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Recommended Use:	Control of bleeding
Restrictions on Use:	For professional use only

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name:	Sultan Healthcare
Manufacturer/Supplier Address:	1301 Smile Way York, PA, USA
Manufacturer/Supplier Telephone Number:	1-201-871-1232 or 800-637-8582 (Product Information)-
Email address:	customer.service@sultanhc.com

1.4 Emergency Telephone Number:

Emergency Contact Telephone Number:	800-535-5053 (INFOTRAC) 1-352-323-3500 (Outside the United States – Call Collect)
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2. HAZARD(s) IDENTIFICATION

2.1 Classification of the Substance or Mixture:

GHS/CLP Hazard/Danger Classification:

Health	Environmental	Physical
Skin Corrosive Category 1B (H314) Eye Damage Category 1 (H318)	Not hazardous	Not hazardous

EU Classification (1999/45/EC as amended): Corrosive (C)

EU Risk (R) and Safety (S) Phrases: R34

Refer to Section 16 for the full text of the EU Classifications and R Phrases.

Labeling Elements: Contains Aluminum Chloride



Signal Word: Danger

Hazard Statements	Precautionary Statements
H314 Causes severe skin burns and eye damage.	P260 Do not breathe mists. P264 Wash thoroughly after handling. P280 Wear protective gloves, protective clothing, eye protection and face protection. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 Immediately call a POISON CENTER or doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water. P363 Wash contaminated clothing before reuse. P310 Immediately call a POISON CENTER or doctor. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a POISON CENTER or doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor. P405 Store locked up. P501 Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous Components	C.A.S. # EC#	IUPAC Name	Substance Classification 67/548/EEC (EC) No 1272/2008	WT %
Aluminum Chloride	7446-70-0 / 231-208-1	Aluminum trichloride	C, R34 Skin Corr 1B, H314	20-30

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS and H phrases and EU Classifications and R Phrases.

4. FIRST-AID MEASURES

4.1 Description of First Aid Measures:

Routes of Exposure	First Aid Instructions
Eye	Immediately flush eyes with large quantities of water for at least 20 minutes, holding the eyelids apart. Get immediate medical attention
Skin	Wash affected area thoroughly with soap and water for at least 15 minutes. Get immediate medical attention. Remove and launder clothing before re-use.
Inhalation	Remove victim to fresh air. Keep comfortable for breathing. Get immediate medical attention.
Ingestion	Do not induce vomiting unless directed to by a physician. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

May cause severe eye and skin irritation or burns. Permanent damage may occur. Inhalation of vapors or mists may cause mucous membrane and upper respiratory tract irritation.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

If eye or skin contact occurs, get immediate medical attention. If swallowed, get immediate medical attention.

Note to Physicians (Treatment, Testing, and Monitoring): Treatment of overexposure should be directed at the control of symptoms and clinical conditions.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Use media appropriate for surrounding fire.





5.2 Special Hazards Arising from the Substance or Mixture:

Combustion may produce oxides of carbon and chlorine compounds including hydrochloric acid.

5.3 Advice for Fire-Fighters:

Fire Fighting Procedures:	Cool fire exposed containers with water.
Precautions for Fire Fighters:	Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

Recommended Protective Equipment for Fire Fighters:



EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Keep unprotected people away from spill area. Wear appropriate protective clothing; gloves and eye protection.

Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

6.2 Environmental Precautions:

Do not allow spill to enter sewers and water courses. Report releases as required by local and federal authorities.

6.3 Methods and Material for Containment and Cleaning up:

Collect using an inert absorbent material and place in an appropriate container for disposal.

6.4 Reference to Other Sections:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Prevent contact with the eyes. Avoid contact with skin and clothing. Avoid breathing mists or aerosols. Wear protective clothing and equipment. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Empty containers retain product residues and can be hazardous. Follow all SDS precautions when handling empty containers.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage.

7.3 Specific End Use (s): For professional use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Occupational Exposure Limits:

Aluminum Chloride	United States	None Established
	Germany	None Established

United Kingdom	2 mg/m ³ TWA UK OEL
France	2 mg/m ³ TWA
Spain	2 mg/m ³ TWA
Italy	None Established
European Union	None Established
Biological Exposure Limits: None Established	

8.2 Exposure Controls:

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Individual Protection Measures (PPE)



Specific Eye/face Protection: Splash proof goggles should be worn if splashing is possible.

Specific Skin Protection: Wear impervious gloves such as polyvinyl chloride (PVC) or nitrile rubber. Recommended glove: polyvinyl chloride (PVC) or nitrile rubber. Consult glove supplier for thickness and breakthrough times.

Specific Respiratory Protection: None required under normal use conditions. If exposure limits are exceeded, an approved respirator with dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

Specific Thermal Hazards: Not applicable

Recommended Personal Protective Equipment:

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:			
Appearance:	Colorless to yellow; hazy to clear liquid	Explosive limits:	Not applicable
Odor:	Odorless	Vapor pressure: (mm Hg @ 25°C):	Not applicable
Odor threshold:	No data available	Vapor density:	Not applicable
pH: (@ 20°C)	< 1.0	Specific Gravity: (H ₂ O = 1)	1.122
Melting/freezing point:	Not available	Solubility:	Complete

Initial boiling point and range:	>230°F (110°C)	Partition coefficient: n-octanol/water:	Not available
Flash point:	Not flammable	Auto-ignition temperature:	Not applicable
Evaporation rate:	Not applicable	Decomposition temperature:	Not available
Flammability:	Not flammable	Viscosity:	Not applicable
Explosive Properties:	None	Oxidizing Properties:	None

9.2 Other Information: None available

10. STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive under normal conditions of use.
10.2 Chemical Stability: Product degrades at temperatures above 45°C (113°F)
10.3 Possibility of Hazardous Reactions: May react with metals such as aluminum or zinc to form flammable hydrogen gas.
10.4 Conditions to Avoid: Avoid exposure to temperatures above 45°C (113°F), and metals.
10.5 Incompatible materials: Avoid alkalies and metals such as aluminum and zinc.
10.6 Hazardous Decomposition Products: Thermal decomposition emits carbon oxides and chlorine compounds including hydrogen chloride. Reacts with metals for form flammable hydrogen gas.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eyes: Causes severe irritation or burns with pain and tearing. Corneal damage is possible.

Skin: May cause moderate to severe irritation. May cause burns on prolonged or repeated contact.

Ingestion: Ingestion may cause irritation of the mucous membranes, esophagus and stomach. May cause nausea, vomiting and diarrhea. Large amounts may cause liver and kidney effects.

Inhalation: Inhalation of mists may cause irritation of the nose throat and upper respiratory tract.

Chronic Health Effects: Prolonged inhalation of aluminum chloride may cause lung damage.

Carcinogenicity: None of the components is listed as a carcinogen by IARC, NTP, OSHA, ACGIH or the EU Substances Directive.

Mutagenicity: No mutagenic effects are expected.
Medical Conditions Aggravated by Exposure: Employees with pre-existing eye, skin, and respiratory disorders may be at increased risk from exposure.
Acute Toxicity Data: Oral rat LD50 3,450 mg/kg, Skin rabbit LD50 > 2000 mg/kg
Reproductive Toxicity Data: No reproductive or teratogenic effects are expected.
Specific Target Organ Toxicity (STOT): <u>Single Exposure:</u> No data available. <u>Repeated Exposure:</u> No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: Aluminum Chloride: 96 hr LC50 Oncorhynchus mykiss (Rainbow trout) 36.6 mg/L; 48 hr EC50 Daphnia magna 27.3 mg/L
12.2 Persistence and Degradability: Aluminum chloride hydrolyzes in water to aluminum hydroxide & hydrochloric acid
12.3 Bio-accumulative Potential: No data available.
12.4 Mobility in Soil: No data available.
12.5 Other Adverse Effects: No data available.
12.6 Results of PBT/vPvB Assessment: Not required

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:
Regulations: Dispose in accordance with local, state and federal environmental regulations
Properties (Physical/Chemical) Affecting Disposal: Aluminum chloride hydrolyzes in water to aluminum hydroxide & hydrochloric acid. May react with some metals to release flammable hydrogen gas.
Waste Treatment Recommendations: Treat in accordance with local, state and federal environmental regulations

14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
DOT	ORM-D	Consumer Commodity	None	None	No
ADR/RID	UN2581	Aluminum Chloride Solution	8	PG III	No
IMDG	UN2581	Aluminum Chloride Solution	8	PG III	No
IATA/ICAO	UN2581	Aluminum Chloride Solution	8	PG III	No

12.6 Special precautions for user: Corrosive Liquid

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable – product is transported only in packaged form.

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act (TSCA): All of the ingredients in this product are listed on the EPA TSCA Inventory.

Clean Water Act (CWA): Not Listed

Clean Air Act (CAA): Not Listed

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Hazard:	Yes	Pressure Hazard:	No
Delayed Hazard:	No	Reactivity Hazard:	No
Fire Hazard:	No		

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

Components	C.A.S. #	WT %
None		

State Regulations

California: This product contains the following chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
None		

International Regulations

Canadian Environmental Protection Act: All the components of this product are listed on the Canadian DSL.

Canadian Workplace Hazardous Materials Information System (WHMIS): Class E Corrosive material.

EU REACH: The substances in this product comply with the EU REACH regulation as applicable.

16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3:

C Corrosive
R34 Causes burns.

Skin Corr 1B Skin Corrosion Category 1B
H314 Causes severe skin burns and eye damage.

Supersedes: 18 November 2011
Revision Summary: Comprehensive review, new format.

Date of SDS Preparation/Revision: 12 June 2014

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.