

### Section 1 – Identification

**Product Name:** Frenna-AC Hemostatic Solution      **Manufacturer:** Dharma Research, Inc.  
 5220 N.W. 72<sup>nd</sup> Avenue, Unit #15  
 Miami, FL 33166

**Active Ingredient:** Aluminum Chloride      **Information Contacts:** (305) 482-9669  
**Toll Free:** (877) 833-3725

**Emergency Phone Numbers:** US & Canada (877 ) 833-3725

**Family:** Topical Astringent  
**Product Use:** Professional Dental Gingival Care  
**Product #:** 60-00001 & 60-00002

### Section 2 – Hazards Identification

#### EMERGENCY OVERVIEW

This information is based on findings from related or similar materials.

- H314 – Causes severe skin burns and eye damage.
- H335 – May cause respiratory irritation
- H302 – Harmful if swallowed
- **Corrosive.**
- Please read entire MSDS for additional information.



#### Potential Health Effects, Signs and Symptoms of Exposure:

**Primary Route of Entry** Inhalation, skin, and ingestion.

**Eye** Corrosive. May cause redness, pain, blurred vision, eye burns, and permanent eye damage.

**Skin** Corrosive. May cause redness, pain, and skin irritation / burn.

**Ingestion** Corrosive. May cause sore throat, abdominal pain, nausea, and irritate throat, and stomach. Tissue burns.

**Inhalation** Inhalation is not an expected hazard unless mist is heated to high temperatures. Mist or vapor inhalation can cause irritation to the nose, throat, and upper respiratory tract

NOTE: Refer to Section 11, Toxicological Information for Details

### Section 3 – Composition/Information on Ingredients

Chemical Identity	CAS Numbers	EINECS#	INCI Name	Exposure	Limits ACGIH	Carcinogen	%
				OSHA	TWA/STEL	IARC/NTP/OSHA	
Aluminum Chloride	7446-70-0	231-208-1	Aluminum Chloride	N/E	N/E	Not listed	25-36

N/E – None Established      N/DA – No Data Available  
 N/R – Not Reviewed      N/A – Not Applicable

May contain the following: FD&C Blue, D&C Violet #2,

#### (Items in parenthesis relate to 1999/45/EC)

**Aluminum Chloride:** Danger Symbol – GHS05 (C)      Hazard Statement – H303 (N/A), H313 (N/A), H314 (R34), H400 (R50)  
 Precautionary Statement – P273 (S61), P280 (S36/37/39), P305 + 351 + 338 (S26)

See Section 16 for Hazard and Precautionary Statement Key.

### Section 4 – First Aid Measures

First Aid for Eye	Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention.
First Aid for Skin	Immediately wipe excess material from skin with a dry cloth; then wash skin with plenty of soap and water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes while washing.
First Aid for Ingestion	If victim is conscious and alert, give 2-3 glasses of water to drink and do not induce vomiting. Seek immediate medical attention. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously.
First Aid for Inhalation	Remove victim from immediate source of exposure and assure that the victim is still breathing. If breathing is difficult, administer oxygen if available. If victim is not breathing, administer CPR. Seek medical help.

### Section 5 – Fire Fighting Measures

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
N/A	N/A	N/A

**Method:**

Extinguishing Media:	Not combustible. Use extinguishing method suitable for surrounding fire.
Fire Fighting Instructions:	Firefighters should wear NIOSH/MSHA approved self contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Evacuate residents who are downwind of fire. Dike area to prevent runoff and contamination of water sources.
Unusual Hazards:	Evacuate all personnel.

### Section 6 – Accidental Release Measures

Spill or Release Procedures	Minor spills – Clean up immediately, avoid contact with skin and eyes. Mop area and clean with soapy water. Retain diluted water for disposal. Major spills – Clear area of personnel. Restrict access to area. Avoid contact with skin and eyes, and dilute area with soapy water. Collect contaminated water and dispose of properly. Dike or retain dilution water for disposal. Large spills should be handled according to a predetermined plan. See section 8 & section 12.
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### Section 7 – Handling and Storage

Handling	Limit all unnecessary personal contact. Avoid breathing vapors. Wear appropriate PPE. Do not get into eyes or on skin. Avoid breathing vapors and mists. This product reacts with bases liberating heat and causing spattering.
Storage	Store in a cool, well ventilated area away from heat, sparks and flame. Keep containers closed when not in use. Keep in original container provided by manufacturer.
Explosion Hazard	None.

### Section 8 – Exposure Controls / Personal Protection

Engineering Controls	General exhaust is adequate under normal operating conditions; however local exhaust ventilation at the point of generation is preferred. Personal hygiene is an important work exposure control measure.
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**Personal Protective Equipment**

General	To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product.
Eye/ Face Protection	Safety glasses / goggles or splash shields are required when handling. Ensure eye bath is on hand.

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Skin Protection	Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit.
Respiratory Protection	A NIOSH/MSHA approved air purifying respirator with an organic vapor/acid cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

### Section 9 – Physical and Chemical Properties

Appearance	Odor & Odor Threshold	pH	Specific Gravity	Viscosity	% Volatile		
Clear / Pale Liquid	Characteristic Odor	N/A	(H <sub>2</sub> O = 1):1.1	N/A	N/A		
Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water (20°C)
N/A	N/DA	N/DA	N/A	N/A	N/A	N/A	N/A
Flash Point (°F/°C)		Flammable Limit (vol%)		Auto-ignition Temperature (vol%)			
N/A		N/A		N/A			

### Section 10 – Stability and Reactivity

<b>Stability:</b> Stable under normal conditions	<b>Incompatibility (Materials to Avoid):</b> Strong oxidizing agents, alcohols
<b>Hazardous Decomposition Products:</b> Aluminum Oxide; HCl gas	<b>Hazardous Polymerization:</b> Will not occur
<b>Conditions to Avoid:</b> Heat and incompatible materials	

### Section 11 – Toxicological Information

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation – skin	Irritation – Eye
N/DA	N/DA	N/DA	N/DA	N/DA
Sensitization		Mutagenicity		Sub-chronic Toxicity
N/DA		N/DA		N/DA

### Section 12 – Ecological Information

#### Ecotoxicological Information

Acute Toxicity to Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria
N/DA	N/DA	N/DA	N/DA	N/DA

#### Chemical Fate Information

<b>Biodegradability</b>	N/DA. This material is not expected to significantly bio-accumulate.
<b>Chemical Oxygen Demand</b>	N/DA

### Section 13 – Disposal Considerations

Dispose of in compliance with governmental regulation (state and federal).

Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

### Section 14 – Transport Information

<b>DOT (49 CFR 172)</b>	
Proper Shipping Name:	UN2581, Aluminum Chloride Solution, 8, III
Identification Number:	UN2581
Marine Pollutant:	No
Special Provisions:	IB3, T4, TP1
<b>Emergency Response Guidebook (ERG) #:</b>	<b>154</b>
<b>IATA (DGR):</b>	
Proper Shipping Name:	UN2581, Aluminum Chloride Solution, 8, III
Class or Division:	8
UN or ID Number:	UN2581
Packaging Instructions:	III
<b>Emergency Response Guidance (ICAO)#:</b>	
<b>IMO (IMDG):</b>	
Proper Shipping Name:	UN2581, Aluminum Chloride Solution, 8, III
Class or Division:	8
UN or ID Number:	UN2581
Special Provisions & Stowage/Segregation:	N/A
<b>Emergency Schedule (EmS)#:</b>	<b>N/A</b>
<b>Other Information:</b>	<b>This product can qualify as a consumer commodity (limited quantity exception)</b>

### Section 15 – Regulatory Information

#### US Federal Regulations

Clean Air Act: HAP/ODS	This product contains the following HAP's or ODS: <ul style="list-style-type: none"> <li>NONE</li> </ul>
Clean Water Act: Priority Pollutant	This product contains the following chemicals listed under the U. S. Clean Water Act Priority Pollutant and Hazardous Substance List: <ul style="list-style-type: none"> <li>None</li> </ul>
FDA: Food Packaging Status	This product has not been cleared by the FDA for use in food packaging and / or other applications as an indirect food-packaging additive.
Occupational Safety and Health Act	This product is considered to be hazardous under the OSHA Hazard Communication Standard. It's hazards are: <ul style="list-style-type: none"> <li>Aluminum Chloride CAS # 7446-70-0 (Acute &amp; chronic health hazard)</li> </ul>
RCRA	This product does not contain any chemicals considered to be hazardous waste under RCRA ( 40 CFR 261).
SARA Title III: Section 302 (RQ)	This product contains no chemicals regulated under Section 302 as extremely hazardous substances.
SARA Title III: Section 302 (TPQ)	This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List): None
SARA Title III: Section 311-312:	This product is considered to be hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). It's hazards are: <ul style="list-style-type: none"> <li>Aluminum Chloride CAS # 7446-70-0 (Acute &amp; chronic health hazard)</li> </ul>

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## Frenna-AC HEMOSTATIC SOLUTION

SARA Title III: Section 313:	This product contains the following chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: <ul style="list-style-type: none"> <li>None</li> </ul>
TSCA Section 8(b): Inventory: TSCA Significant New Use Rule:	This product does contain chemicals listed on the TSCA inventory or otherwise complies with TSCA pre-manufacture notification requirements. <ul style="list-style-type: none"> <li>Aluminum Chloride CAS # 7446-70-0</li> </ul> None of the chemicals in this material have a SNUR under TSCA.


### State Regulations

CA Right-to-Know Law: California No Significant Risk	None None
MA Right-to-Know Law:	Aluminum Chloride CAS # 7446-70-0
NJ Right-to-Know Law:	Aluminum Chloride CAS # 7446-70-0
PA Right-to-Know Law:	Aluminum Chloride CAS # 7446-70-0
FL Right-to-Know Law:	None
MN Right-to-Know Law:	None

### International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)	Aluminum Chloride CAS # 7446-70-0
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### Labeling according to EC directives – 1272/2008 {CLP} AND 1999/45/EC (items in parenthesis relate to 1999/45/EC)

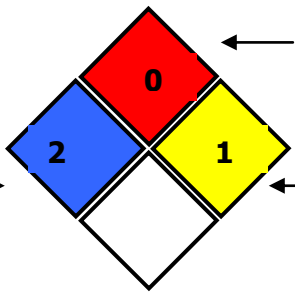
<p>European Community:</p> 	<p><b>For Frenna-AC Hemostatic Solution (finished product):</b></p> <ul style="list-style-type: none"> <li>DANGER SYMBOLS: <b>GHS05 (C) – Corrosive. GHS07 (Xi) – Warning</b></li> <li>HAZARD STATEMENT: <b>H314 (R34), H335 (R37), H302 (R22).</b></li> <li>PRECAUTIONARY STATEMENT: <b>P102 (S2),</b> Keep out of reach of children. <b>P210 (S15),</b> Keep away from heat/sparks/open flames/hot surfaces. <b>P260 (S23),</b> Do not breathe dust/fume/gas/mist/vapors/spray. <b>P280 (S36/37/39),</b> Wear protective gloves/clothing/eye protection/face protection. <b>P309+314 (S45),</b> If exposed or you feel unwell, get medical advice/attention. <b>P405 (S1),</b> Store locked up. <b>P501 (S56),</b> Dispose of contents/ container in appropriate way.</li> </ul>
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## Section 16 – Other Information

### EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):

<p>(items in parenthesis relate to 1999/45/EC)</p> <p><b>Danger Symbols:</b> GHS05 (C) – Corrosive. GHS07 (Xi) – Warning / Irritant.</p> <p><b>Hazard Statement:</b> <b>H314 (R34),</b> Causes severe skin burns and eye damage. <b>H335 (R37),</b> May cause respiratory irritation. <b>H302 (R22),</b> Harmful if swallowed. <b>H303 (N/A),</b> Maybe harmful if swallowed. <b>H313 (N/A),</b> Maybe harmful in contact with skin. <b>H400 (R50),</b> Very toxic to aquatic life.</p> <p><b>Precautionary Statement:</b> <b>P102 (S1 or S2),</b> Keep out of reach of children. <b>P210 (S15),</b> Keep away from heat/sparks/open flames/hot surfaces. <b>P260 (S23),</b> Do not breathe dust/fume/gas/mist/vapors/spray. <b>P280 (S36/37/39),</b> Wear protective gloves/clothing/eye protection/face protection. <b>P305+334 (S26),</b> In case of contact with eyes, rinse immediately with water. <b>P309+314 (S45),</b> If exposed or you feel unwell, get medical advice/attention. <b>P404 (S7),</b> Store in a closed container. <b>P403+235 (S3/9),</b> Store in a well ventilated place. Keep cool. <b>P405 (S1),</b> Store locked up. <b>P501 (S56),</b> Dispose of contents/ container in appropriate way. <b>P273 (S61),</b> Avoid release to environment. <b>P305 + 351 + 338 (S26),</b> If in eyes, rinse with water, remove contacts.</p>
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**Hazard Rating System (Pictograms)**

<p><b>NFPA:</b></p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 20px;"> <p><b>Health</b> →</p> </div>  <div style="margin-left: 20px;"> <p>← <b>Flammability</b></p> <p>← <b>Reactivity</b></p> </div> </div>	<p><b>HMIS:</b></p> <div style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #4a86e8; color: white;"> <td style="text-align: center; border: 1px solid black; border-radius: 50%; width: 30px;">2</td> <td style="padding: 5px;"><b>Health</b></td> </tr> <tr style="background-color: #e91e63; color: white;"> <td style="text-align: center; border: 1px solid black; border-radius: 50%;">0</td> <td style="padding: 5px;"><b>Flammability</b></td> </tr> <tr style="background-color: #ffeb3b; color: black;"> <td style="text-align: center; border: 1px solid black; border-radius: 50%;">1</td> <td style="padding: 5px;"><b>Reactivity</b></td> </tr> <tr style="background-color: white;"> <td style="border: 1px solid black; height: 20px;"></td> <td></td> </tr> </table> </div>	2	<b>Health</b>	0	<b>Flammability</b>	1	<b>Reactivity</b>		
2	<b>Health</b>								
0	<b>Flammability</b>								
1	<b>Reactivity</b>								

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Revision History:	10/17/2013 Revision A

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