## **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

077044365

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

077044340 077044357 077044407 077048952 077049018 077049190 077049216

# SAFETY DATA SHEET

Aluminum Chloride Hemostatic Gingival Retraction Solution

## **Section 1. Identification**

**GHS** product identifier : Aluminum Chloride Hemostatic Gingival Retraction Solution

Other means of identification

: Hemodettes, Hemogin-L, Styptin

**Product type** : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Dental product: Hemostatics Area of application : Professional applications.

**Manufacturer** : DUX DENTAL Inc.

> 600 E. Hueneme Road Oxnard, CA 93033

Telephone no.: 805-488-1122 or 800-833-8267

Fax no.: 800-444-5170 www.duxdental.com

e-mail address of person responsible for this SDS

: Contact customer service at 1-800-KERR-123 for any questions

**Emergency telephone** number (with hours of

operation)

: CHEMTREC® (24 hours) U.S.: 1-800-424-9300 International: +1-703-527-3887

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Health effects are based on the uncured material.

Classification of the substance or mixture : SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1.1%

**GHS label elements** 

**Hazard pictograms** 



Signal word : Warning

**Hazard statements** : Causes serious eye irritation.

Causes skin irritation.

**Precautionary statements** 

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## Section 2. Hazards identification

Prevention : Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after

handling.

Response : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and

wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise : None known.

classified

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of : Hemodettes, Hemogin-L, Styptin identification

**CAS** number/other identifiers

**CAS number** : Not applicable.

**Product code** : 13150, 13052, 13057, 13058, 13156, 13157

| Ingredient name | Other names    | %     | CAS number |
|-----------------|----------------|-------|------------|
|                 | Not available. | 30-60 | 56-81-5    |
|                 | Not available. | 0.1-1 | 1310-58-3  |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

## Section 4. First aid measures

#### Description of necessary first aid measures

**Eye contact**: No special measures are required. In case of contact with eyes, rinse immediately with

plenty of water. Get medical attention if symptoms occur.

**Inhalation**: No special measures required. If inhaled, remove to fresh air. Get medical attention if

symptoms occur.

Skin contact : No special measures required. In case of contact, immediately flush skin with plenty of

water. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is

conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or

are severe.

#### Most important symptoms/effects, acute and delayed

## Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation.

**Ingestion** : No known significant effects or critical hazards.

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## Section 4. First aid measures

## Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing

aid to give mouth-to-mouth resuscitation.

## See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: In a fire or if heated, a pressure increase will occur and the container may burst.

 Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Hydrochloric acid fumes

Special protective actions for fire-fighters

: In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely

For emergency responders: Low release. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Low release. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

Large spill

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

# Section 7. Handling and storage

## Precautions for safe handling

**Protective measures** 

: No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

## Control parameters

## Occupational exposure limits

| Ingredient name   |              |  | Exposure limits   |  |  |
|---|--------------|--|---|--|--|
| glycerol  OSHA PEL 1989 ( TWA: 5 mg/m³ 8 fraction TWA: 10 mg/m³ 8 OSHA PEL (Unite |              | OSHA PEL 1989 (United States, 3/1989).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 2/2013).  TWA: 5 mg/m³ 8 hours. Form: Respirable |   |  |  |
| potassium hydroxide   |              |  | fraction TWA: 15 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2015). C: 2 mg/m³ OSHA PEL 1989 (United States, 3/1989). CEIL: 2 mg/m³ |  |  |
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# Section 8. Exposure controls/personal protection

NIOSH REL (United States, 10/2013). TWA: 2 mg/m³ 10 hours.

Appropriate engineering controls

: No special measures are required for small quantities under normal and intended conditions of product use.

**Environmental exposure** controls

: No special measures are required for small quantities under normal and intended conditions of product use.

### Individual protection measures

**Hygiene measures** : No special measures are required for small quantities under normal and intended

conditions of product use.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

**Body protection** : No special measures are required for small quantities under normal and intended

conditions of product use.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection : No special measures are required for small quantities under normal and intended

conditions of product use.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid. [Clear, slightly viscous liquids, green or clear, with a bitterseet taste.]

Color : Green. or Clear.

Odor : Spearmint or Odorless.

Odor threshold : Not available.

pH : Not available.Melting point : Not available.

Boiling point : >100°C (>212°F)

Flash point : Not available.

Evaporation rate : <1 (Water = 1)

Flammability (solid, gas) : Not applicable.

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure : Not available.
Vapor density : Not available.

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# Section 9. Physical and chemical properties

Relative density : 1.25

**Solubility** : Soluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

SADT : Not available.

Viscosity : Not available.

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : No specific data.

**Incompatible materials** : Reactive or incompatible with the following materials: metals.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

## **Acute toxicity**

| Product/ingredient name | Result    | Species | Dose        | Exposure |
|-------------------------|-----------|---------|-------------|----------|
| glycerol                | LD50 Oral | Rat     | 12600 mg/kg | -        |
| potassium hydroxide     | LD50 Oral | Rat     | 273 mg/kg   | -        |

## **Irritation/Corrosion**

| Product/ingredient name | Result                   | Species     | Score | Exposure                   | Observation |
|-------------------------|--------------------------|-------------|-------|----------------------------|-------------|
| glycerol                | Eyes - Mild irritant     | Rabbit      | -     | 24 hours 500               | -           |
|                         | Skin - Mild irritant     | Rabbit      | -     | milligrams<br>24 hours 500 | -           |
| potassium hydroxide     | Eyes - Moderate irritant | Rabbit      | _     | milligrams<br>24 hours 1   | _           |
|                         | Skin - Severe irritant   | Guinea pig  |       | milligrams<br>24 hours 50  |             |
|                         | Skiii - Severe iiiilaiil | Guiriea pig | -     | milligrams                 | -           |
|                         | Skin - Severe irritant   | Rabbit      | -     | 24 hours 50 milligrams     | -           |

## **Sensitization**

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# Section 11. Toxicological information

Not available.

## **Mutagenicity**

Not available.

## **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

### **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

## Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation.

**Ingestion** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects :

: Not available.

**Long term exposure** 

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# Section 11. Toxicological information

Potential immediate

effects

: Not available.

Potential delayed effects :

: Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

## **Numerical measures of toxicity**

## **Acute toxicity estimates**

| Route | ATE value     |
|-------|---------------|
| Oral  | 41720.5 mg/kg |

# Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name | Result                        | Species                         | Exposure |
|-------------------------|-------------------------------|---------------------------------|----------|
| potassium hydroxide     | Acute LC50 80 ppm Fresh water | Fish - Gambusia affinis - Adult | 96 hours |

## Persistence and degradability

| Product/ingredient name | Test  | Result         | Dose | Inoculum |
|-------------------------|---|----------------|------|----------|
| glycerol                | 301D Ready<br>Biodegradability -<br>Closed Bottle<br>Test | 93 % - 30 days | -    | -        |

#### **Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| glycerol                | -1.76  | -   | low       |

## **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

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## **United States**

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

# **Section 14. Transport information**

|                            | DOT Classification | IMDG           | IATA           |
|----------------------------|--------------------|----------------|----------------|
| UN number                  | Not regulated.     | Not regulated. | Not regulated. |
| UN proper shipping name    | -                  | -              | -              |
| Transport hazard class(es) | -                  | -              | -              |
| Packing group              | -                  | -              | -              |
| Environmental hazards      | No.                | No.            | No.            |
| Additional information     | -                  | -              | -              |

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

# Section 15. Regulatory information

U.S. Federal regulations

: United States inventory (TSCA 8b): Not determined. Clean Water Act (CWA) 311: potassium hydroxide

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602 Class I Substances

: Not listed

Clean Air Act Section 602

: Not listed

Class II Substances **DEA List I Chemicals** 

: Not listed

(Precursor Chemicals) **DEA List II Chemicals** (Essential Chemicals)

: Not listed

**SARA 302/304** 

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# Section 15. Regulatory information

## **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Immediate (acute) health hazard

## **Composition/information on ingredients**

| Name                         | % | hazard     | Sudden<br>release of<br>pressure |            | Immediate<br>(acute)<br>health<br>hazard | Delayed<br>(chronic)<br>health<br>hazard |
|------------------------------|---|------------|----------------------------------|------------|--|--|
| glycerol potassium hydroxide |   | No.<br>No. | No.<br>No.                       | No.<br>No. | Yes.<br>Yes.                             | No.<br>No.                               |

#### **SARA 313**

Not applicable.

## State regulations

Massachusetts : The following components are listed: GLYCERINE MIST

**New York** : None of the components are listed.

New Jersey : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL

Pennsylvania: The following components are listed: 1,2,3-PROPANETRIOL

California Prop. 65

None of the components are listed.

## Section 16. Other information

## **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

## **National Fire Protection Association (U.S.A.)**



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## Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

**History** 

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**Key to abbreviations** 

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

References

: HCS (U.S.A.)- Hazard Communication Standard

International transport regulations

✓ Indicates information that has changed from previously issued version.

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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