

## SEPTODONT, INC.

### Information:

Manufacturer/Distributor:

Septodont, Inc.

P.O. Box 11926

Wilmington, DE 19850

245C Quigley Blvd.

New Castle, DE 19720

Emergency Phone Number: 202-625-3333 or

302-328-1102

Telephone for Information: 302-328-1102

## MSDS

Material Safety Data Sheet

Date Revised: August 16, 1997

Product/Material:

**RACESTYPTINE SOLUTION**

**HAZARDOUS INGREDIENTS**

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV	Other Recommended Limits
Aluminum Chloride AlCl <sub>3</sub> (25%)		None	None	AI PEL: 15 mg/m <sup>3</sup> TLV: 10 mg/m <sup>3</sup>
Ethyl Alcohol C <sub>2</sub> H <sub>5</sub> OH (63%)		1000 ppm	1000 ppm	Hydrogen Chloride PEL: 5 ppm TLV: 5 ppm
8-Hydroxyquinoline Sulphate (less than .5% of product mixture)				

## PHYSICAL CHARACTERISTICS

See attached component data sheet for Boiling Point, Solubility in Water, Vapor Pressure, Vapor Density, Specific Gravity, Melting Point, and Evaporation Rate. Appearance and Odor: Clear liquid; mild odor.

## REACTIVITY DATA

Stability: Stable. Incompatibility: With some oxidizers and chlorides. Hazardous Polymerization: Will not occur. Hazardous Decomposition: Aluminum chloride catalyzes many organic reactions and some like alkenes or aniline resulted in violent reactions. This is not like with the mixture in .44 oz. container.

## FIRE/EXPLOSION HAZARD DATA

Flash Point: 55°F. Flammable Limits: % by Vol LEL: 3.3\* UEL: 9\*. Extinguishing Media: Use dry chemical, CO<sub>2</sub> or foam. Use of water may cause reaction with aluminum chloride in mixture. Water may be used to cool containers not yet involved in fire and dilute spills. Special Fire Fighting Procedures: Wear protective gear and self-contained breathing apparatus. Use water spray to disperse any vapors. Special Fire and Explosion Hazards: Hydrogen chloride may be given off during fire. Ethyl alcohol (pure grade) is a flammable. \*For undiluted ethyl alcohol. Flash point should be significantly higher temperature for mixture in 0.44 oz container.

## **HEALTH HAZARD DATA**

Routes of Entry: Inhalation: Yes; Skin: Yes; Ingestion: Yes. See attached component data sheets for Health Hazards (acute & chronic). Carcinogenicity: NTP? No. IARC Monographs? No. OSHA Regulated? No. Signs & Symptoms of Exposure: Irritation and skin rash, burning and tearing of eyes, irritation of upper respiratory passages and diarrhea. See attached component data sheet for Medical Conditions Generally Aggravated by Exposure. Emergency and First Aid Procedures: If large amount inhaled, move to fresh air; if not breathing, give artificial respiration; if difficulty breathing, give oxygen. If skin contact, immediately flush skin with large amounts of water. If eye contact, flush eyes with large amounts of water for at least 15 minutes. If swallowed, immediately call a physician and/or a poison control center.

## **CONTROL MEASURES**

Respiratory Protection: Single dental patient use in properly ventilated room should not necessitate use of respirators. If unsure of exposure and for other exposures, refer to attached component data sheet for Aluminum Chloride. Ventilation: Local: Normally not needed if existing area/room ventilation is adequate for single patient usage; Mechanical: As needed. Protective Gloves: Butyl type, if needed. Eye Protection: Safety glasses; chemical splash goggles as needed. Other Protective Clothing/Equipment: Lab coat and/or impervious apron, as needed. Work/Hygienic Practices: Avoid breathing vapors or mist. Avoid eye and skin contact. Wash thoroughly after handling. Use in properly ventilated area.

## **SAFE HANDLING/DISPOSAL INFORMATION**

Steps to Take in Case of Spill: Review safety and fire precautions before cleanup.

Wear protective equipment and respiratory protection as necessitated by nature of spill and conditions. Use absorbent material to pick up liquid and place in container for proper disposal. Waste Disposal Method: Follow Federal, state and local regulations. Small quantities as used with single patient may be diluted and flushed in sewer as laboratory material. Obtain proper authorization form correct agency before placing in sewer system. Precautions When Handling and Storing: Keep containers tightly closed. Use in properly ventilated areas. Store away from heat in dry area. Open containers in ventilated area.

This MSDS is only complete when the following data sheets are attached: Aluminum Chloride and Ethyl Alcohol.

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## SEPTODONT, INC.

Information:

Refer to attached product sheet.

### MSDS

Material Safety Data Sheet

Date Revised: August 16, 1997

Product/Material:

**ALUMINUM CHLORIDE -  $AlCl_3$**

Synonyms: Aluminum Chloride, Hexahydrate

### HAZARDOUS INGREDIENTS

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV	Other Recommended Limits
Aluminum Chloride	7446-70-0	None	None	Aluminum - metal dust PEL: 15 mg/m <sup>3</sup> TLV: 10 mg/m <sup>3</sup> Hydrogen Chloride PEL: 5 ppm TLV 5 ppm 7ppm mg/m <sup>3</sup> ceiling

### PHYSICAL CHARACTERISTICS

Boiling Point: 262°C. Solubility in Water: Soluble. Vapor Pressure: 1 mm Hg @ 100°C. Vapor Density: 9.19. Specific Gravity: 2.44. Melting Point: 190°C. Evaporation Rate: N/A. Appearance and Odor: White to yellowish crystal or powder; chloride odor.

### REACTIVITY DATA

Stability: Reacts violently with water liberating much heat and can explode. Incompatibility: With water, moist air violent reactions with alkyl chloride, ethylene oxide and nitromethane. Hazardous Polymerization: Will not occur. Hazardous Decomposition: Catalyzes many organic reactions; contact with many organics like alkenes, nitrobenzene, aniline, etc. have resulted in violent reactions.

### FIRE & EXPLOSION HAZARD DATA

Flash Point: None. Flammable Limits: N/A. Extinguishing Media: Do not use water in vicinity of aluminum chloride. Use dry chemical or foam. Special Fire Fighting Procedures: Evacuate personnel. Wear personal protective equipment and

self-contained breathing apparatus. DO NOT USE WATER. Special Fire and Explosion Hazards: Hazardous gases/vapors produced including hydrogen chloride. Violent reaction if water stream used.

### HEALTH HAZARD DATA

Routes of Entry: Inhalation: Yes; Skin: Yes; Ingestion: Yes. Health Hazards (acute & chronic): At 10% concentration, the compound is a skin and eye irritant. The compound is a DOT corrosive material. Skin contact may initially cause irritation or rash. Eye contact may initially cause irritation, tearing, or blurring of vision. Inhalation may initially irritate the upper respiratory passages. Ingestion may initially include burning pain in the mouth and throat, vomiting, water or bloody diarrhea, retching, hemolysis (red blood cell destruction), blood in urine, lack of urine, liver damage with jaundice, hypotension, collapse, and convulsion. Prolonged exposures may lead to encephalopathy (brain disease), weakness, osteomalacia (bone softening and bending), and elevated serum calcium levels. Contact with concentrated

(Health Hazard Data, Contd.)

solutions or the crystalline material may cause skin burns, ulceration, eye corrosion with corneal or conjunctival ulceration. The compound has been infrequently associated with skin sensitization in humans. Carcinogenicity: NTP? No. IARC Monographs? No. OSHA Regulated? No. Signs & Symptoms of Exposure: Irritation, reddening of skin; tearing of eyes, burning pain in mouth and throat, diarrhea. Medical Conditions Generally Aggravated by Exposure: Existing upper respiratory conditions. Emergency and First Aid Procedures: If large amounts are inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Exothermic reaction with water will cause burns if large quantities are washed off the skin. WIPE OFF EXCESS BEFORE WASHING. In case of contact, remove contaminated clothing and wipe off excess aluminum chloride immediately. Then, flush skin with plenty of water for at least 20 minutes. If irritation persists, repeat water flush for another 20 minutes. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. If swallowed do not induce vomiting. Give large quantities of water. never give anything by mouth to an unconscious person. In all situations, immediately call a physician.

### **CONTROL MEASURES**

Respiratory Protection: A NIOSH approved air purifying respirator with a high efficiency particulate prefilter and an acid gas cartridge or canister may be acceptable where airborne concentrations are expected to exceed exposure limits at a low level. Protection provided by air purifying respirators is limited. Air purifying respirators should protect against particulates and hydrogen chloride fumes. Wear a positive pressure air supplied

respirator if any potential for an uncontrolled release, higher exposure levels, or unknown exposure. Ventilation: Local: To control dust exposure to acceptable levels per usage; Mechanical: As needed. Protective Gloves: Neoprene to prevent skin contact. Eye Protection: Safety glasses. Chemical splash goggles if potential for eye/face contact for airborne material. Other Protective Clothing/Equipment: Wear impervious clothing (apron, boots, etc.) to prevent skin contact. Work/Hygienic Practices: Do not breathe vapor, mist or dust. Avoid eye and skin contact. Keep off clothing. Wash thoroughly after handling.

### **SAFE HANDLING/DISPOSAL INFORMATION**

Steps to Take in Case of Spill: Review safety and fire precautions before clean-up. Use appropriate personal protection equipment. Ventilate area thoroughly and use self-contained breathing apparatus. Dike spill and shovel or sweep up. Avoid water and moisture during clean-up. Sodium bicarbonate may be used to help neutralize spill. Place in appropriate container and label. Waste Disposal Method: Follow all Federal, state and local environmental regulations. Do not flush or place in water ways or sewer systems. Contact appropriate agency for disposal guidance. Precautions when Handling and Storing: Use only in well ventilated area. Wear appropriate protective equipment. Keep container tightly closed and store in dry area. Do not mix with water. Avoid generating dust when handling. Keep out of direct sunlight. Note: Prolonged storage of anhydrous aluminum chloride has resulted in spontaneous decomposition and possible explosion upon opening container.

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**MSDS**

Material Safety Data Sheet

Date Revised: August 22, 1997

Product/Material:

**8-HYDROXYQUINOLINE SULPHATE - (C<sub>8</sub>H<sub>7</sub>HO)<sub>2</sub>H<sub>2</sub>SO<sub>4</sub>**

Synonyms: Quinosol

**HAZARDOUS INGREDIENTS**

Hazardous Components	CAS#	OHSA PEL	ACGIH TLV	Other Recommended Limits
8-Hydroxyquinoline Sulphate	134-31-6	None	None	N/A

**PHYSICAL CHARACTERISTICS**

Boiling Point: 159°C. Solubility in Water: Soluble. Vapor Pressure: N/A. Specific Gravity: N/A. Vapor Density: N/A. Melting Point: 68°C. Evaporation Rate: Slight. Appearance and Odor: Pale yellow powder; slight odor.

**REACTIVITY DATA**

Stability: Stable. Incompatibility: Strong acids and oxidizers. Hazardous Polymerization: Will not occur. Hazardous Decomposition: May emit nitrogen oxides when heated to decomposition.

**FIRE & EXPLOSION INFORMATION**

Flash Point: None. Flammable Limits: N/A. Extinguishing Media: Dry chemical, CO<sub>2</sub>, water spray, alcohol foams. Special Fire Fighting Procedures: Wear full protective equipment and self-contained breathing

apparatus. Keep other personnel away from area. Special Fire and Explosion Hazards: Emits toxic fumes - carbon dioxide, nitrogen oxides and carbon monoxide during fires.

**HEALTH HAZARD DATA**

Routes of Entry: Inhalation: Yes; Skin: Yes; Ingestion: Possible. Health Hazards (acute & chronic): Irritant to mucous membranes on inhalation; eye and skin irritant. Carcinogenicity: NTP? No. IARC Monographs? No. OSHA Regulated? No. Signs and Symptoms of Exposure: Tearing of eyes; skin reddening; throat irritation. Medical Conditions Generally Aggravated by Exposure: None identified. Emergency and First Aid Procedures: Move to fresh air if inhaled. Give artificial respiration if not breathing, oxygen if difficulty breathing. If skin contact, flush with water. If eye contact flush eyes with plenty of water for at

(Health Hazard Data Contd.)  
least 15 minutes. If ingested, call a physician. In all situations consult with a physician.

### **CONTROL MEASURES**

Respiratory Protection: NIOSH approved air purifying respirator with dust cartridge or canister. Use positive pressure air supplied respirator for high and/or extended exposure or if air purifying respirator will not provide adequate protection. Ventilation: Local: As needed to control powder and dust particulate. Mechanical: As needed. Protective Gloves: Neoprene gloves as needed. Eye Protection: Safety glasses; chemical goggles to prevent eye contact from air borne particles. Other Protective Clothing/Equipment: As needed to protect from skin irritation. Work/Hygienic Practices: Avoid breathing dust. Avoid eye and skin contact. Wash thoroughly after handling.

### **SAFE HANDLING/DISPOSAL INFORMATION**

Steps to Take in Case of Spill: Review safety precautions before clean up. Use personal protective equipment during clean up. Sweep or vacuum up and place in a container for disposal. Wash spill area after removing material. Waste Disposal Method: Dispose of material in accordance with Federal, state and local regulations. Do not flush into or place in water or sanitary systems without prior agency authorization. Precautions when Handling and Storing: Keep containers tightly closed. Store in cool, dry area. Use in well ventilated areas. Avoid generating dust.

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