

## Safety Data Sheet

Product ID: 210 **DeltaCAL**

Revised: April 5, 2017

### 1. IDENTIFICATION

Product Name: **DeltaCAL Rapid Bone Decalcifier**

Recommended Use: Aqueous decalcifier for the safe removal of calcium from Histologic specimens.

**Delta Medical, Inc**

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### 2. HAZARDS IDENTIFICATION

**There are NO Hazards associated with this MIXTURE.** Hazard Classification: Not Hazardous;

Signal Word: None, N/A; Hazard Statements: None, N/A; Precautionary Statements: None, N/A

### 3. COMPOSITION / INFORMATION ON MIXTURE INGREDIENTS

<u>Component of Preparation</u>	<u>CAS #</u>	<u>% by Wt</u>	<u>PEL</u>	<u>TLV</u>	<u>Other</u>
Aqueous Hydrogen Chloride	7647-01-0	5.0-9.5	5ppm	2ppm	N/A

There are NO additional ingredients present which are classified as hazardous to health or the environment. CBI is not harmonized under GHS. Full disclosure of these formulations is protected under the IL Trade Secret Act and CBI provisions have not compromised our user's safety.

### 4. FIRST-AID MEASURES

Eye Contact: Flush eyes immediately with water for 15 minutes. If irritation persists, seek medical.

Symptoms include redness, tearing, stinging similar to lemon juice.

Skin Contact: Rinse with water. Wash well with soap and water if itching persists.

Symptoms include mid irritation, itching, stinging sensation on open cuts.

Inhalation: Remove to fresh air. There are no fumes from the product, but likely from deposits.

Symptoms include mild irritation to respiratory tract from over-misting of product.

Ingestion: If swallowed, do not induce vomiting. Rinse mouth immediately of terrible taste.

Symptoms include upset stomach or irritation with nausea. Similar to stomach acids.

Note to Physicians: This is a non-hazardous decalcifier and can be held openly in your bare hands. It will however dissolve calcium deposits and should not be combined with exposed teeth or cuts.

### 5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, foam or extinguisher for surrounding materials.

Fire Fighting Methods: This liquid does not burn, but any normal methods may be used in a fire.

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Contain spills and minimize personal contact with fluids. Wash afterwards.

Environmental Precautions: Material is wholly biodegradable. It should be spent prior to disposal. Dispose of all spent materials in accordance with Federal, State, Provincial or local regulations.

Clean-up Procedures: Rinse with water to sewer drain. Not for disposal down storm sewers.

### 7. HANDLING AND STORAGE

Handling: Preserve integrity of containers. Store in a cool place. Keep closed and uncontaminated.

Safe Storage: Five (5) year shelf life. Lot number and expiration month/year on container sticker. Store between 15° F and 120° F and keep out of the reach of children. This is a diagnostic reagent.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**This product contains no substances with occupational exposure values.**

Engineering Controls: None required. General outside ventilation and normal safety practices.

Respiratory Protection: None required under normal use conditions.

Eye/Face Protection: Keep from eyes. Safety glasses/goggles would be a good option to consider.

Body/Skin Protection: May be held in your bare hand without danger. Gloves for sensitive skin. Change contaminated clothing and wash after use & before eating or using the bathroom.  
General Safety Measures: This is a diagnostic laboratory reagent and should be handled as such.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Dark liquid	Freezing Point: 25 Degrees F
Color: Translucent black, like coffee	Boiling Point: 215 Degrees F
Odor: Slightly acidic	Flash Point: None, will not support combustion
pH Value: Less than 3	Solubility in Water: 100%

#### 10. STABILITY AND REACTIVITY

Reactivity: No special reactivity to report, Hazardous Polymerization will NOT occur.  
Chemical Stability: Very stable under the recommended storage conditions.  
Hazardous Reactions: Avoid strong caustics. Potential violent pH change reactions.  
Incompatible Materials: Strong caustics or alkalis, bleach or chlorinated products.

#### 11. TOXICOLOGICAL INFORMATION

See Section 12 below for LC 50 information.  
Routes of Exposure: Eyes, Ingestion, Skin and Inhalation  
Eye Contact: Will cause irritation. Similar to lemon juice.  
Ingestion: No hazard expected under normal use. May be harmful to teeth if swallowed.  
Skin Absorption: No data available. Causes slight itching sensation.  
Inhalation: No hazard expected under normal use.  
None of this product's components are listed as carcinogens by AGCIH, IARC, NTP or OSHA

#### 12. ECOLOGICAL INFORMATION

Fish and Aquatic Invertebrates: Fathead minnow (P. promelas) and water flea (C. dubia)  
LC-50: 4049.9 mg/L and 3268.5 mg/L respectively NOEL: 2500 mg/L  
Manufacturer's Notes: BOD Values tested to be 16 mg/L which is readily biodegradable. This material will not bioaccumulate but is water soluble and is highly mobile in soils.

#### 13. DISPOSAL CONSIDERATIONS

Waste Disposal of Substance: Expended solutions may be disposed down regular city sewers with a water flush. The dissolved calcium deposits in a lower pH discharge will not harm the bugs at WWTPs.  
Used Packaging: Rinse with water and offer for recycle, if available. Dispose as Non-Hazmat.

#### 14. TRANSPORT INFORMATION

Land and Sea Transport: Common Carrier truck, rail, ocean or air transport shipped same day ARO. International and Air Transport: Export by sea or air freight. HIS# 3402.90.5030 NMFC# 48580-03  
UN info, package, hazard class, group or special precautions all NON-applicable. Non-Pollutant.

#### 15. REGULATORY INFORMATION

TSCA Inventory: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements. This product meets all the NSF criteria for being rated A3 in all food plants.  
SARA Title III Section 311: There are NO Regulated Components or Category Hazards associated with this product.

#### 16. OTHER INFORMATION

NFPA Hazard Codes: Health: 0 Fire: 0 Reactivity: 0 Special: A  
Hazard Rating System: Health: 0 Flammability: 0 Reactivity: 0  
Most decalcification can be accomplished in 2-4 hours time. Use this and all our decalcifiers as directed and at ambient temps. Elevated temperatures increase risk of harm. This document complies with 29 CFR 1910.1200

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