

DELTA MEDICAL, INC.

P.O. Box 6466

Aurora, IL 60598

630-357-5544

MATERIAL SAFETY DATA SHEET

REVISED November 2003

DeltaCAL lite Decalcifier

PRODUCT INFORMATION

TRADE NAMES OR SYNONYMS: *DeltaCAL lite Decalcifier*
FORMULA: PROPRIETARY, CONFIDENTIALITY REQUIRED
CHEMICAL FAMILY: SPECIMEN DECALCIFIER FOR USE IN THE IN VITRO PREPARATION OF HISTOLOGICAL MATERIALS.

ACTIVE INGREDIENTS

MATERIAL OR COMPONENT	TLV (p.p.m.)	APPROXIMATE %
HYDROGEN CHLORIDE, AQUEOUS	5	LESS THAN 7
DELTA PROPRIETARY COMPOUNDS	30	LESS THAN 4

NOTE: This material is an aqueous organic salt solution and as such should **NOT** be considered hazardous under normal use conditions.

NOTE: Laboratory tests indicate material to be BIODEGRADABLE. May be disposed of with water flush down regular city sewer systems per local wastewater regulations.

PHYSICAL DATA

BOILING POINT: 208° F
SOLUBILITY IN WATER: MISCIBLE
SPECIFIC GRAVITY, (WATER = 1): 1.04 AT 17° C
VAPOR PRESSURE: 30 TORR.
VAPOR DENSITY, (AIR = 1): GREATER THAN 1
PERCENT VOLATILE BY VOLUME: 99.6%
APPEARANCE: LIGHT YELLOW LIQUID
ODOR: CHARACTERISTIC
EVAPORATION RATE, (WATER = 1): SLOW
PHYSICAL STATE: LIQUID

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NO FLASH POINT, EXTINGUISHES FLAME.
EXTINGUISHING MEDIA: DOES NOT SUPPORT COMBUSTION.
SPECIAL FIRE FIGHTING PROCEDURES: NONE- WATER WILL CONTROL, AS WILL CO₂.
UNUSUAL FIRE & EXPLOSION HAZARDS: NON-COMBUSTIBLE OR EXPLOSIVE.
HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 0
PERSONAL PROTECTION: A

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: NONE FOR TOTAL - MATERIAL IS AN AQUEOUS ORGANIC SALT SOLUTION AND AS SUCH HAS LITTLE VAPOR PRESSURE AND NO NOXIOUS FUMES.

EFFECTS OF OVEREXPOSURE: NOT CONSIDERED HAZARDOUS WHEN USED AS DIRECTED.

EMERGENCY FIRST AID PROCEDURES: IF EYE/SKIN CONTACT, COPIOUS WATER RINSE. CONSULT PHYSICIAN. NOT TO BE TAKEN INTERNALLY. IF INGESTED- DO NOT INDUCE VOMITING - DRINK MILK, EGG WHITES, ETC. AS DIRECTED BY PHYSICIAN.

REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITIES (MATERIALS TO AVOID): THE COMBINATION OF HYDROGEN CHLORIDE AND FORMALDEHYDE GASES CAN FORM bis-chloromethyl ether, A DANGEROUS CARCINOGENIC COMPOUND. **DeltaCAL lite** DISCOLORS AND WILL CORRODE MOST METALS. AVOID EXPOSURE TO METAL CASSETTES, COUNTERTOPS, SLIDE RACKS OR FERROUS ITEMS.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: EXCESSIVE HEATING OVER 120° F

SPILL AND DISPOSAL PROCEDURES

ACTION TO TAKE FOR SPILLS: RINSE WITH COPIOUS AMOUNTS OF WATER TO DILUTE; SODIUM BICARBONATE MAY ALSO BE USED TO SOAK UP AND NEUTRALIZE.

DISPOSAL METHOD: EXPENDED OR USED MATERIAL MAY BE DISPOSED DOWN SEWER WITH WATER FLUSH. MATERIAL IS **BIODEGRADABLE** - EVEN AS RECEIVED.

SPECIAL HANDLING INFORMATION

VENTILATION: 1. **LOCAL EXHAUST:** NORMAL
2. **MECHANICAL (GENERAL):** SUFFICIENT
3. **RESPIRATORY PROTECTION (TYPE):** NONE REQUIRED

PROTECTIVE GLOVES: AS RECOMMENDED BY LAB SAFETY DEPARTMENT.

EYE PROTECTION: AS RECOMMENDED BY LAB SAFETY DEPARTMENT.

OTHER PROTECTIVE EQUIPMENT: AS RECOMMENDED BY LAB SAFETY DEPARTMENT.

SPECIAL PRECAUTIONS

HANDLING AND STORING: STORE **DeltaCAL lite** IN TIGHTLY CLOSED CONTAINERS

CAN MATERIAL BE STORED OUTSIDE? YES, MAINTAIN MATERIAL BETWEEN 25°-120° F

IS MATERIAL FREEZABLE? YES, AT AROUND 25° F

OTHER PRECAUTIONS: Most **DeltaCAL lite** tissue decalcification can be accomplished in an average of four to twenty four hours. Please use this product only as directed. Use **DeltaCAL lite** at ambient or room temperature.

The suitability of this product for one's intended purpose is left to the user's judgement and responsibility. For other product information, please contact Delta Medical. This data is furnished independent of any sales of the product only for your investigation and independent verification. While information is believed to be correct, manufacturer shall in no event be responsible for any damage whatsoever, directly or indirectly, resulting from the publication or use of or reliance upon data contained herein. No warranty, either expressed or implied, of any merchantability, of fitness, or of any nature with respect to the product, or to the data, is made herein. This revised report complies with MSDS rules and is in accordance with 29 CFR 1910.1200-1500 Hazardous Communication Act effective November 25, 1985 including Subpart Z.