

SL193
Calcium chloride

MATERIAL SAFETY DATA SHEET
10% Calcium Chloride Inj. USP

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: 10% Calcium Chloride Inj. USP
List Number: 1631, 4908, 4928, 4953

MANUFACTURER: Hospital Products Division
Abbott Laboratories
Abbott Park, Illinois 60064

EMERGENCY TELEPHONE NUMBER: 1-847-937-7970
CHEMTREC TELEPHONE NUMBER: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME: Calcium Chloride *
CAS/RTECS NUMBERS: 10043-52-4/EV9800000
OSHA-PEL 8HR TWA: N/L
STEL: N/L
CEILING: N/L
ACGIH-TLV 8HR TWA: N/L
STEL: N/L
CEILING: N/L
OTHER 8HR TWA: N/A
LIMITS STEL: N/A
CEILING: N/A

* Hazardous per OSHA criteria

3. HAZARDS INFORMATION

EMERGENCY OVERVIEW: In clinical use, this material is used as a calcium supplement and to treat magnesium and potassium toxicity. Direct contact with the skin could be severely irritating with the skin as the target organ. Excessive clinical use can result in cardiovascular changes including vasodilation, decreased blood pressure/heart rate, arrhythmias, syncope and cardiac arrest.

ROUTE(S) OF ENTRY: Skin: Unlikely
Inhalation: Unlikely

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Ingestion: Unlikely

INGESTION RATING: None

SKIN ABSORPTION RATING: N/D

INHALATION RATING: N/D

CORROSIVENESS RATING: N/D

SKIN CONTACT RATING: Irritant

SKIN SENSITIZATION RATING: N/D

EYE CONTACT RATING: N/D

TARGET ORGANS: Skin

CARCINOGENICITY RATING: NTP: N/L IARC: N/L OSHA: N/L

ACGIH: N/L

None

SIGNS AND SYMPTOMS: N/D. Direct contact with the skin can result in severe irritation. In clinical use, adverse effects include tingling, sensation of heat, and chalky taste, while rapid injection can result in vasodilation, decreased blood pressure and heart rate, cardiac arrhythmias, syncope and cardiac arrest. Ingestion could result in gastrointestinal upset and constipation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/D. Available data suggest concurrent use of digitalis or other cardiac glycosides. Pre-existing ventricular fibrillation or hypocalcemia or skin or eye ailments.

4. FIRST AID MEASURES

EYES: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. No known antidote. Provide symptomatic/supportive care as necessary.

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SKIN: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. No known antidote. Provide symptomatic/supportive care as necessary.

INGESTION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. No known antidote. Provide symptomatic/supportive care as necessary.

INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. No known antidote. Provide symptomatic/supportive care as necessary.

5. FIRE FIGHTING PROCEDURES

FLASH POINT: N/D

FLASH POINT METHOD: N/A

LOWER EXPLOSIVE LIMIT(%): N/D

UPPER EXPLOSIVE LIMIT(%): N/D

AUTOIGNITION TEMPERATURE: N/D

FIRE & EXPLOSION HAZARDS: N/D

EXTINGUISHING MEDIA: Use media appropriate for primary cause of fire.

FIRE FIGHTING INSTRUCTIONS: Wear protective clothing and self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE PROCEDURES: Absorb with suitable material and place in appropriate container for disposal.

7. HANDLING AND STORAGE

HANDLING: No special handling required.

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STORAGE: Store at controlled room temperature of 15-30 deg. C (59-86 deg. F).

SPECIAL PRECAUTIONS: N/D

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: No special provisions required.

RESPIRATORY PROTECTION: None required.

SKIN PROTECTION: If skin contact is likely, latex gloves are recommended.

EYE PROTECTION: Recommended if eye contact is likely.

OTHER PROTECTION: N/D

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Clear, colorless solution.

ODOR: N/D

BOILING POINT: Water (approx.)

MELTING/FREEZING POINT: Water (approx.)

VAPOR PRESSURE (mm Hg): N/D

VAPOR DENSITY (Air=1): N/D

EVAPORATION RATE: N/D

BULK DENSITY: N/D

SPECIFIC GRAVITY: N/D

SOLUBILITY: Water, alcohol

pH: 5.5 - 7.5

VISCOSITY: N/D

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: N/D

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INCOMPATIBILITIES: Methyl vinyl ether, zinc.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition it emits toxic fumes of Cl⁻.

HAZARDOUS POLYMERIZATION: N/D

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY: N/D. LD50 = 1000-1940 mg/kg in rats, rabbits and mice for calcium chloride.

DERMAL TOXICITY: N/D. LD50 > 5000 mg/kg in rabbits for calcium chloride.

INHALATION TOXICITY: N/D

CORROSIVENESS: N/D

DERMAL IRRITATION: N/D. Solutions of calcium chloride reported to cause severe irritation, erythema, blistering, exfoliation, ulceration, necrosis and scarring.

OCULAR IRRITATION: N/D. Application of 2-10% solution of calcium chloride reported to cause no permanent eye injury in rabbits. Calcium chloride in solution reported to be essentially innocuous to the eyes.

DERMAL SENSITIZATION: N/D

SPECIAL TARGET ORGAN EFFECTS: N/D

CARCINOGENICITY INFORMATION: N/D

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/D

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WASTE DISPOSAL METHODS: Dispose of in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

DOT STATUS: Not Regulated
PROPER SHIPPING NAME: N/A
HAZARD CLASS: N/A
UN NUMBER: N/A
PACKING GROUP: N/A
REPORTABLE QUANTITY: N/A

IATA/ICAO STATUS: Not Regulated
PROPER SHIPPING NAME: N/A
HAZARD CLASS: N/A
UN NUMBER: N/A
PACKING GROUP: N/A
REPORTABLE QUANTITY: N/A

IMO STATUS: Not Regulated
PROPER SHIPPING NAME: N/A
HAZARD CLASS: N/A
UN NUMBER: N/A
PACKING GROUP: N/A
REPORTABLE QUANTITY: N/A
FLASH POINT: N/D

15. REGULATORY INFORMATION

TSCA STATUS: N/D

CERCLA STATUS: N/D

SARA STATUS: N/D

RCRA STATUS: N/D

PROP 65 (CA): N/D

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LEGEND: N/A = Not Applicable
N/D = Not Determined
N/L = Not Listed
L = Listed
C = Ceiling
S = Short-term
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