



MATERIAL SAFETY DATA SHEET

Abbreviations: N/A = Not applicable; ND = No data or not known.

SECTION I: PRODUCT IDENTIFICATION & GENERAL INFORMATION

PRODUCT NAME: CL-210

CHEMICAL NAME & SYNONYMS: N/A (mixture)

CAS NUMBER: N/A

CHEMICAL FAMILY: Inorganic nitrite solution.

PROPER SHIPPING NAME: Sodium Nitrite, Solution.

DOT HAZARD CLASS & ID NUMBER: Non-hazardous, UN-1500. **TRANSPORTATION EMERGENCY:** Call CHEMTREC: (800) 424-9300

DOT REQUIRED LABELS: None.

MANUFACTURER'S NAME: Chemco Products, Inc.

MANUFACTURER'S EMERGENCY PHONE: (517) 546-7800

MANUFACTURER'S ADDRESS: 1349 Grand Oaks Dr., Howell, MI 48843.

SECTION II: HAZARDOUS INGREDIENTS

Hazardous Agent	CAS #	Percent	Toxicity Data
Sodium nitrite	7632-00-0	20-30	Oral LD ₅₀ , rat: 85 mg/kg TLV: 2 mg/m ³

SECTION III: PHYSICAL DATA

BOILING POINT (°F): approx. 212

VAPOR PRESSURE (mm Hg): as water

VAPOR DENSITY (AIR = 1): as water

SOLUBILITY IN WATER: complete

APPEARANCE & ODOR: Clear, colorless to pale amber liquid; odorless.

SPECIFIC GRAVITY (H₂O = 1): 1.1-1.2

% VOLATILE BY VOLUME: N/A

pH AS SHIPPED: 9-10

OTHER: N/A

SECTION IV: FIRE & EXPLOSION HAZARD DATA

FLASH POINT, °F (method used): N/A

AUTO-IGNITION TEMPERATURE, °F: N/A

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: Suitable to surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus.

UNUSUAL FIRE & EXPLOSION HAZARDS: Material is a strong oxidizer when water is removed. Combustible materials burn more readily when wet with sodium nitrite solutions and then dried; such fires are difficult to extinguish. Dried material releases hazardous nitrogen oxides when burned.

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SECTION V: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

ORAL INGESTION: This is a moderately toxic material. Calculated from the LD₅₀ value in Section II, the LD₅₀ for this material is approx. 1 ml or 1 g/kg for rats.

SKIN CONTACT: Mildly irritating to non-irritating.

EYE CONTACT: Irritating.

INHALATION: N/A.

SUBCHRONIC, CHRONIC & OTHER EFFECTS: None known or expected.

SECTION VI: EMERGENCY & FIRST AID PROCEDURES

EYES: Hold eyelids open and flush eyes for 15 minutes with water. Get medical attention.

SKIN: Immediately remove contaminated clothing and wash skin with soap and water or plain water. Launder contaminated clothing before reuse.

ORAL: Immediately wash out mouth with water. If swallowed, immediately dilute by drinking several glasses of water and immediately induce vomiting by putting finger down throat. Get immediate medical attention.

INHALATION: N/A

NOTES TO PHYSICIAN: Treat symptomatically and for nitrite ingestion.

SECTION VII: REACTIVITY DATA

STABILITY: Stable: Yes. Unstable: No.

HAZARDOUS POLYMERIZATION: Does not occur.

CONDITIONS TO AVOID: Do not heat to dryness or allow water to evaporate. Dried material is a strong oxidizer.

INCOMPATIBILITY (materials to avoid): Acids, ammonium salts, cyanides, cyanogens, reducing agents, activated carbon. May form nitrosamines with secondary and tertiary amines.

HAZARDOUS DECOMPOSITION PRODUCTS: Acidic decomposition: Toxic nitrogen oxides. Thermal decomposition: Oxygen, oxides of nitrogen, oxides of carbon.

SECTION VIII: SPILL OR LEAK PROCEDURES

REPORTABLE QUANTITIES (RQ) IN LBS. OF EPA HAZARDOUS SUBSTANCES IN PRODUCT: Sodium nitrite, RQ = 100 lbs.

NOTIFY EPA OF PRODUCT SPILLS EQUAL TO OR EXCEEDING 440 LBS. (approx. 40 gal.)

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Wear full protective clothing (Section IX) and rubber boots. Dike and contain spill area and cover liquid with an inert absorbent which should be placed in a suitable metal container to be disposed of as a hazardous waste in compliance with federal RCRA regulations.

WASTE DISPOSAL METHOD: This product contains an EPA-regulated hazardous material. Full-strength product should be disposed of only by trained personnel in a properly regulated chemical waste disposal facility in accordance with all federal, state and local regulations.

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SECTION IX: PERSONAL PROTECTION, HANDLING & STORAGE

PROTECTIVE GLOVES: Neoprene, to cover forearms.

EYE PROTECTION: Splash-proof goggles, face mask.

OTHER PROTECTIVE CLOTHING: Neoprene chemical apron.

RESPIRATORY PROTECTION: Not required for normal handling.

VENTILATION: Mechanical (general): Satisfactory.

Local Exhaust: Not required.

STORAGE & HANDLING: Wear proper protective clothing whenever using or handling this product. Keep drum closed when not in use. Store away from Incompatible Materials (Section VII). PROTECT FROM FREEZING.

ADDITIONAL INFORMATION

None.