



Before CSP Cleaner

PRODUCT: CS-210

MATERIAL SAFETY DATA SHEET

DATE ISSUED: 2/15/89

DATE REVISED: 5/11/90

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

SECTION I: PRODUCT IDENTIFICATION & GENERAL INFORMATION

PRODUCT NAME: CS-210
CHEMICAL NAME & SYNONYMS: N/A (mixture)
CAS NUMBER: N/A (mixture)
CHEMICAL FAMILY: Closed-loop water treatment.

PROPER SHIPPING NAME: Compound, Industrial Process Water Treating
DOT HAZARD CLASS & ID NUMBER: None.
DOT REQUIRED LABELS: None.

TRANSPORTATION EMERGENCY: CHEMTREC: (800) 424-9300

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	20-25	LD50: 85 mg/kg; TLV: 2 mg/m ³

SECTION III: PHYSICAL DATA

BOILING POINT (°F): approx. 212 SPECIFIC GRAVITY (H₂O = 1): 1.15-1.25
VAPOR PRESSURE (mm Hg): as water % VOLATILE BY VOLUME: N/A
VAPOR DENSITY (AIR = 1): as water pH AS SHIPPED: 11 to 12
SOLUBILITY IN WATER: complete OTHER:
APPEARANCE & ODOR: Clear, colorless to pale yellow liquid. Odorless.

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: Firefighters should wear self-contained breathing apparatus.
UNUSUAL FIRE & EXPLOSION HAZARDS: If material burns to dryness it will generate nitrogen oxides which are toxic and the dried nitrite is an oxidizer which may contribute to fire.

SECTION V: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

ORAL INGESTION: May irritate mouth, esophagus, stomach, etc. Ingestion of large amounts can result in acute toxic effects: nausea, conversion of hemoglobin to methhemoglobin, a marked fall in blood pressure, leading to collapse, coma and possibly death.

SECTION V: HEALTH HAZARD DATA (con't.)

EFFECTS OF OVEREXPOSURE (con't.)

SKIN CONTACT: Prolonged contact may cause irritation or possible chemical burns.
 EYE CONTACT: Irritation and possible severe chemical burns.
 INHALATION: Mists may irritate respiratory tract. Large amounts may cause systemic effects as nitrites are readily absorbed by the lungs.

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

SECTION VI: EMERGENCY & FIRST AID PROCEDURES

Prompt action is essential in minimizing damage!

EYES: Immediately flush eyes (hold lids open) with plenty of running water for 15 minutes; get medical attention for irritation.
 SKIN: Flush skin with lots of running water while removing contaminated clothing and shoes. Launder clothing before reuse. Get medical attention in case of irritation.
 ORAL: Immediately rinse out mouth with lots of water. If swallowed, dilute by swallowing several glasses of water or milk and induce vomiting (conscious victims only); take victim to a hospital immediately. If unconscious or in convulsions, do NOT induce vomiting but take victim immediately to a hospital.
 INHALATION: Immediately remove victim to fresh air. If unconscious, administer artificial respiration or oxygen and get immediate medical attention.

SECTION VII: REACTIVITY DATA

STABILITY: Stable: Yes Unstable: No
 HAZARDOUS POLYMERIZATION: Does not occur.
 CONDITIONS TO AVOID: Do not allow material to evaporate to dryness. Dry nitrites are oxidizers.
 INCOMPATIBILITY (materials to avoid): Acids, ammonium salts, cyanides, reducing agents, bisulfites.
 HAZARDOUS DECOMPOSITION PRODUCTS: (Thermal) Oxides of carbon, nitrogen, sodium.

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 45 GAL.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Wear rubber boots, rubber gloves, rubber apron and face shield. Dike spill area, cover with an inert absorbent, sweep or shovel up and discard in compliance with local, state and federal hazardous material regulations.

WASTE DISPOSAL METHOD: Both full-strength and dilute material should be discharged only to an appropriate chemical waste treatment facility, in compliance with federal, state and local regulations.

SECTION IX: PERSONAL PROTECTION, HANDLING & STORAGE

PROTECTIVE GLOVES: Neoprene, covering forearms. EYE PROTECTION: Splash-proof goggles or face shield.

OTHER PROTECTIVE CLOTHING: Rubber or neoprene apron.

RESPIRATORY PROTECTION: Not required for normal handling.

VENTILATION: Mechanical (general): Satisfactory. Local Exhaust: Not required under usual conditions.

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

ADDITIONAL INFORMATION

<u>HMIS Rating Code:</u>	0 = Minimal Hazard
	1 = Slight Hazard
Health-----2	2 = Moderate Hazard
Flammability-----0	3 = Serious Hazard
Reactivity-----1	4 = Severe Hazard
Personal Protection--C	C = Protective goggles, gloves and apron

To the best of our knowledge the information and recommendations contained herein are accurate. However, any and all chemicals and chemical mixtures may contain presently unknown or unrecognized health and/or environmental hazards and should be used with great care and caution. Therefore, we cannot assume liability for the completeness or total accuracy of the information contained herein; users should satisfy themselves by independent investigation that this material can be used safely.

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