



**NORAMTECH
CORPORATION**

Material Safety Data Sheet

1.0 Chemical Product and Company Identification:

1.1	Product Name:	MCL 217 CHLORINE FINAL RINSE
1.2	Product Type:	Dishmachine Final Rinse
1.3	Company	Noramtech Corporation 19 Elmwood Avenue Kansas City, Kansas 66103
1.4	Phone	1-800-643-9070; 1-913-713-4120; Fax 1-913-713-4127
1.5	Emergency	Chemtrec 1-800-424-9300

2.0 Hazardous Components

PRINCIPAL HAZARDOUS COMPOUNDS	CAS #	Wt %	THRESHOLD LIMIT VALUE (UNITS)
Sodium hypochlorite (10%)	7681-52-9	100	OXIDIZER

SECTION 313: This product is not known to contain any compound listed and in quantities requiring reporting under SARA Title III Section 313.

CALIFORNIA PROPOSITION 65: This product is not known to contain any material listed under California's Proposition 65.

3.0 Physical Data

3.1	Appearance:	Greenish-yellow, clear liquid
3.2	Solubility in water:	Complete
3.3	PH 0.5% Solution	10-12
3.4	Boiling Point	>212 F.
3.5	Flash Point	Does not burn
3.6	Vapor Pressure	Not established
3.7	Specific Gravity/Density	1.05

4.0 Fire and Explosion Data

4.1	Special Fire Hazards:	Avoid fumes from spilled or exposed liquid. Dilute copiously, ventilate and be prepared to use respiratory protection, if needed.
4.2	Fire Fighting Methods:	Product decomposes when heated. Decomposition products may cause containers to rupture or explode. Vigorous reaction then possible with organic materials or ammonium containing materials.
4.3	Unusual Fire and Explosion Hazards:	Solution is acidic

5.0 Reactivity Data

5.1	Stability:	Yes
5.2	Conditions to Avoid:	Heavy metals, reducing agents, organics, ammonia, acids. Ammonia reacts to form toxic NC13 gas
5.3	Hazardous Decomposition Products:	Hypochlorous/hydrochloric acids, chlorine

6.0 Spill or Leak Procedures

6.1	Cleanup and Disposal:	Reduce by adding reducing agents, such as bisulfites or ferrous salt solutions. Keep on alkaline side and dilute with large amounts of water. Dispose of in accordance with local, state and federal regulations.
6.2	Steps to be taken if released or spilled:	Sewer small spills. Dike to contain large spill. Avoid heat and contamination with acidic materials. DO NOT use sawdust or other combustibles to soak up spills.

7.0 Health Hazard Data

7.1	Effects of overexposure:	Eyes: X Skin: X Ingestion: X Inhalation: X Chronic Exposure:
7.2	Signs and Symptoms of Exposure:	Severe eye and skin irritant. Irritating to mucous membranes. Ingestion can cause gastrointestinal irritation, nausea, vomiting or death.

8.0 First Aid

8.1	Eyes:	Flush with running cold water for 10-15 minutes and see physician
8.2	Skin:	Flush thoroughly with running water. See physician if irritation persists.
8.3	Ingestion:	Do NOT induce vomiting. Give a large amount of water and transport to an emergency medical center for immediate attention.
8.4	Inhalation:	Remove person to fresh air. Never give any liquids by mouth to an unconscious person.

9.0 Protective Measures

9.1	Eyes Protection:	Eye wash facility necessary.
9.2	Skin Protection:	Chemical resistant gloves for prolonged exposure. Safety shower necessary.
9.3	Respiratory Protection:	Use NIOSH-approved breathing respirator with acid-type canister when fumes are present.
9.4	Ventilation Protection:	Local exhaust.

10.0 Special Precautions

10.1	Handling and Storage Precautions:	Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Remove and launder contaminated clothing before reuse. Avoid breathing dust. Keep partially used containers closed and away from heat and high humidity. Do not exceed storage temperatures of 100° F.
10.2	Transport Information	DOT Class: Class 55, Hypochlorite solutions, 8, UN1791, PGIII DOT Proper Shipping Name: Refer to bill of lading or container label for DOT or other transportation hazard classification if any.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. The stated MSDS is reliable to the best of the company's knowledge and believed accurate as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

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Noramtech Corporation 19 Elmwood Avenue Kansas City, Kansas 66103