MATERIAL SAFETY DATA SHEET

Curtis/GlenChem Corp.

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24 Hour Emergency: CHEMTREC® (800) 424-9300

Product: **CIP 267**

MSDS No.: F2267 - Rev 1.0 Date: 01/97
Replaces - None
Reason: New - Original

-- SECTION 01 - IDENTIFICATION AND INFORMATION --

Product or Trade Name: ..... CIP 267
Chemical Name/Synonym: ..... PROPRIETARY BLEND
Chemical Family: ..... HIGHLY ALKALINE LIQUID COMPOUND
Formula: ..... PROPRIETARY
Product Code: F2267

HMIS
Hazard Rating: Legend:

Health: 3
Fire: 0
Reactivity: 2

0 - Least
1 - Slight
2 - Moderate
3 - High
4 - Extreme

Product Description: Highly alkaline, chlorinated liquid cleaning compound.

-- SECTION 02 - PHYSICAL DATA --

Boiling Point:: ..... > 210°F
Vapor Pressure: ..... N/A (non-solvent)
Vapor Density: ..... N/A (non-solvent)
Appearance: ..... Clear liquid
pH neat: ..... 13.6 +, as received

Solubility in Water: ..... Complete
Specific Gravity: ..... 1.28 (H_2O=1)
% Volatile by Volume: ..... Nil
Odor: ..... Bland
pH solutions: ..... 12.4 @ 77°F (2% bvw)

-- SECTION 03 - HAZARDOUS COMPONENTS --

CHEMICAL NAME	CAS #	% Range	OSHA PEL	ACGIH TLV
*Potassium hydroxide (caustic potash) (Corrosive)	1310-58-3	15-20	2 mg/m^3, Ceiling Value	2 mg/m^3, Ceiling Value
*Sodium hypohchlorite Solution (Oxidizer, Corrosive)	1310-73-2	10-20	Not Listed	Not Listed
Inert and/or non-hazardous components	--------	60-80	----------	----------

*Component hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200) or one or more state Right-To-Know lists.

-- SECTION 04 - FIRE AND EXPLOSION HAZARD DATA --

Flash Point: ..... N/A (will not support combustion).
Extinguishing Media: ..... Small Fire: CO^2, water fog, dry chemical; Large Fire: Alcohol-type or all-purpose-type foam.
Special Fire Fighting Procedures: ..... Use self-contained breathing apparatus; water may be used to cool adjacent containers.

-- SECTION 05 - REACTIVITY DATA --

Stability: ..... Stable.
Incompatibility: ..... Strong acids and other oxidizers, ammonia or ammonia bearing compounds.
Hazardous Decomposition Products: ..... Carbon monoxide may form upon thermal degradation.
Hazardous Polymerization: ..... Will not occur.

- Continued on next page -

-- SECTION 06 - SPILL, LEAK, AND DISPOSAL PROCEDURES --

Small Spills: Dilute with water. Chlorine will dissipate rapidly. ***Only when chlorine is fully depleted*** (test for available chlorine), neutralize and flush to sewer according to local regulations.
Large Spills: Prevent spread of spill by dyking. Salvage uncontaminated material if possible. Follow above procedure for small spills.

ALWAYS DISPOSE OF MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES FOR THAT TYPE OF MATERIAL.

-- SECTION 07 - HEALTH HAZARD DATA --

EYE CONTACT:..... Corrosive to eye tissue. Causes chemical burns.
SKIN CONTACT:..... Contact may result in skin irritation to chemical burns.
INHALATION:..... Inhalation of mists results in burns of respiratory system.
INGESTION:..... Harmful if swallowed. Causes severe burns and complete tissue perforation of mucous membranes of the mouth, throat esophagus and stomach.
EFFECTS OF OVEREXPOSURE:..... Corrosive to all body tissues. Severity of damage and extent of its irreversibility increases with length of contact time.

-- SECTION 08 - FIRST AID --

EYES:..... Flush with water for a minimum of 15 minutes (industry safety standard for all materials) while holding eyelids apart. Flushing within seconds of contact is essential in minimizing damage. Seek medical attention if irritation persists. Note to physician: Incidence of contact may cause impairment of vision. Stain for evidence of corneal injury. If burned, instill antibiotic steroid preparation frequently.
SKIN:..... Flush with water; wash with soap and water after handling. Seek medical attention should irritation persist or in case of severe exposure. Physician: Treat as normal thermal burn.
INHALATION:..... Remove to fresh air. Seek medical attention for cases of severe exposure.
INGESTION:..... DO NOT INDUCE VOMITING. Administer several glasses of water to drink. Seek medical attention.

Do not give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep air passages clear. Do not allow aspiration of vapors.

-- SECTION 09 - SPECIAL HANDLING INFORMATION --

VENTILATION:..... Ventilation sufficient to maintain exposure levels in the air below the ceiling value.
RESPIRATORY PROTECTION:..... NIOSH approved respirator for airborne mist conditions.
PROTECTIVE CLOTHING: ..... Chemical resistant gloves, rubber or neoprene protective clothing. Protection should be commensurate with anticipated exposure to insure that no contact is possible with skin or clothing.
EYE PROTECTION:..... Tight fitting or chemical workers goggles or face shield.

-- SECTION 10 - REGULATORY AND ADDITIONAL INFORMATION --

HANDLING AND STORAGE: Do not breathe vapors or mist. Do not allow contact with eyes, or leave in contact with skin for prolonged periods. Wash contaminated clothing prior to re-use. Do not allow contact with oxidizers. Empty Containers: Do not reuse empty containers for storage of foodstuffs or potable water. For returnable drums or drums set aside for reconditioner, empty drums as completely as possible and fit bungs tightly with undamaged closures. DOT regulations forbid transportation of partially filled and unclosed containers.

DOT: Shipping Information: Corrosive Liquids, n.o.s. (potassium hydroxide/sodium hypochlorite), 8, NA1760, PG II
Emergency Response Guide: ER-154 (1996)
TSCA - The ingredients in this material are listed on the TSCA Inventory.
SARA Title III Information (potassium hydroxide as a components of this material): A) Sections 311/312 - acute, reactive; B) Section 313 - Listed; C) Section 302 - Not Listed as an Extremely Hazardous Substance.
CERCLA Information (for the hazardous components): Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with NRC RQs of 1000 lb. Release to land, air or water of CIP 267 would be in excess of 180 gallons to meet the RQ for reporting.

Abbreviations Used in this Material Safety Data Sheet: < = Less Than; > = Greater Than; N/A = Not Applicable; N/E = Not Established; N/L = Not Listed; N/D = Not Determined; TWA = Time Weighted Average; STEL = Short Term Exposure Limit; PEL = Permissible Exposure Limit; NIOSH = National Institute of Occupational Safety & Health; OSHA = Occupational Safety & Health Administration; ACGIH = American Conference of Government and Industrial Hygienists; NTP = National Toxicology Program; IARC = International Agency for the Registration of Carcinogens; TSCA = Toxic Substance Control Act; SARA = Superfund Amendment Reauthorization Act; RQs = Reportable Quantities; CERCLA = Comprehensive Environmental Response Compensation and Liability Act; NRC = National Response Center; RCRA = Resource Recovery and Conservation Act.