
MATERIAL SAFETY DATA SHEET

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Revised 2/02/04
Replaces 8/12/03
Printed 2/03/04

HD CIP CLEANER**MSDS ID: 02686470**

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: HD CIP CLEANER

Product Descriptor: Liquid chlorinated cleaner.

MANUFACTURER: JOHNSON DIVERSEY, INC.

EMERGENCY PHONE NUMBER: (800) 851-7145

3630 E. KEMPER ROAD

CINCINNATI, OH. 45241

II. HAZARDOUS COMPONENTS

Component Name	CAS Number	%	Exposure Limits	Units
SOD. HYPOCHLORITE	7681-52-9	1 - 5%	None est.	
SODIUM HYDROXIDE	1310-73-2	5 - 15%	TLV-C 2	MG/M3

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CORROSIVE- Contains alkalis and chlorinated chemicals. Causes severe burns to skin and eyes. May be fatal if swallowed. Do not contact eyes, skin or clothing. Wear goggles, face shield, rubber gloves, and protective clothing and boots when handling products. Avoid breathing dust or spray mist. Use respiratory protection for any breathing difficulty. **TOXIC CHLORINE VAPORS** may be released by fire or mixing with acids. Contain spill and runoff which may cause environmental damage.

POSSIBLE ROUTES OF ENTRY: Ingestion, Skin and Inhalation.**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

ACUTE: EYES: Severe burns or irritation with pain, redness, swelling, and blurred sight. SKIN: Burns, blisters or rash with pain and swelling. INGESTION: Burns or irritation to mouth, throat with pain, nausea and vomiting. INHALATION: Spray or mist causes pain, choking, and breathing difficulty.

CHRONIC: Same as Acute Effects.**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Dermatitis and sensitive skin.**TARGET ORGAN(S) OF CHEMICAL HAZARD(S):** Eyes and skin.

IV. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for 15 minutes. Get medical attention.

SKIN: Flush skin with plenty of water. Remove and launder contaminated clothing before reuse. Get medical attention for irritation or injury.

INGESTION: If swallowed, rinse mouth with water. Dilute by drinking several glasses of water. Do not induce vomiting. Get prompt medical attention. **NOTE:** Never give fluids by mouth to an unconscious person.

INHALATION: Remove to fresh air. If breathing difficulties arise, get medical attention.

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V. FIRE FIGHTING MEASURES

FLASH POINT (degrees F):N/A FLAME EXTENSION: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: N/A UEL: N/A
UNUSUAL FIRE OR EXPLOSIVE HAZARDS: Burning or decomposition may form hydrogen chloride or other toxic gases.
EXTINGUISHING MEDIA: Water spray, CO2, foam or dry powder.
FIRE FIGHTING INSTRUCTIONS: Wear full protective gear and positive pressure breathing apparatus (SCBA) in fire area.
SPECIAL INSTRUCTIONS: Spilled product may cause slippery surface and fall hazard.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED:
Contain spill. Wear protective clothing. Soak up or absorb liquid on sand or clay. Collect and place in chemical waste container. Dispose of in accordance with governmental regulations. Flush spill area with water.
This product contains a Reportable Quantity (RQ) of Sodium Hydroxide CAS #1310-73-2 of 12,197 Lbs. or 1250 gallons and of Sodium Hypochlorite - CAS #7681-52-9 of 1953 lbs. or 200 gallons.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: CHLORINATED PRODUCT. Do not mix or store with acids or ammonia containing chemicals. Toxic chlorinated gases may be released. Keep container closed when not in use. Wear protective gear when handling or using product. Protect from high temperatures.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: Chemical goggles if contact or splash hazard exists. Eye wash in use area.
PROTECTIVE GLOVES: Chemical resistant.
RESPIRATORY PROTECTION: Approved cartridge or canister respirators only provide limited protection. Use a positive pressure air supplied respirator if uncontrolled release, high exposure levels or any other conditions where air purifying respirators are not adequate.
OTHER PROTECTIVE CLOTHING/EQUIPMENT: Rubber boots, chemical apron and safety shower in use area if contact or splash hazard exists.
ENGINEERING CONTROLS:
MECHANICAL VENTILATION: Normal room ventilation should be sufficient to control airborne levels.
LOCAL VENTILATION: Not usually required.

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Yellow liquid with chlorine odor.

BOILING POINT (DEG F): 216 FREEZING POINT: Not determined
SPECIFIC GRAVITY/BULK DENSITY: 1.17 pH: 13.2
pH 1% SOLUTION: 12.9

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IX. PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

VOLATILE BY VOLUME: 76 Weight % solids: ND
SOLUBILITY IN WATER: Soluble
VAPOR PRESSURE(mmHg): ND at ND VAPOR DENSITY: ND

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Product stable.
INCOMPATIBILITY WITH OTHER MATERIALS: Acids, ammonia and nitrogen compounds.
HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion may form hydrogen chloride, phosgene and chlorinated compounds.
HAZARDOUS POLYMERIZATION: None known.

XI. TOXICOLOGICAL INFORMATION

No data available.
TOXICITY TEST DATA:
Sodium hydroxide: Acute Oral LD50 (rat) - 500 mg/kg (RTECS)
Acute Skin LD50 (rabbit) - 1350 mg/kg (MSI)
Sodium hypochlorite: Acute Oral LD50 (rat) - 2840 mg/kg (PTI)

XII. ECOLOGICAL INFORMATION

ECOTOXICITY DATA: Product and waste are harmful to fish and aquatic forms.
Discharge process waste and overflow to a sanitary sewer or on-site treatment process.
ECOTOXICITY TEST DATA: No data available.
ENVIRONMENTAL FATE: No data available.

XIII. DISPOSAL CONSIDERATIONS

RCRA REGULATED: Corrosive material - D002, dispose of in accordance with local, state and, federal regulation.
Adjust pH of diluted product and discharge to industrial sewer. Use product in container until empty. Triple rinse container with water and add to process.
Recycle or dispose of container by product labeling or governmental regulations.

XIV. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up to date shipping information.

XV. REGULATORY INFORMATION

U.S. Federal Regulations:
TSCA: All ingredients in this product are on TSCA inventory.
HAPS: Contains no hazardous air pollutants.
VOC CONTENT (EPA Method 24A): % VOC: None Lb/Gal VOC:
CERCLA/EPCRA:
Section 313 Toxic Chemicals: None

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XV. REGULATORY INFORMATION (Cont.)

SARA Section 311/312:

ACUTE:YES CHRONIC:NO FIRE:NO REACTIVITY:NO

SUDDEN RELEASE OF PRESSURE:NO

LISTED CARCINOGEN: None

NTP: No IARC: No OSHA: No

HMIS RATINGS: HEALTH: 3 FIRE: 0 REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: C

NFPA RATING: HEALTH: 3 FIRE: 0 REACTIVITY:0 SPECIAL:Corrosive

STATE RIGHT-TO-KNOW INFORMATION:

Sodium Chloride - Cas #7647-14-5

Sodium Hydroxide - Cas #1310-73-2

Sodium Hypochlorite - Cas #7681-52-9

Sodium Polyacrylate - Cas #9003-01-4

Water - Cas #7732-18-5

CALIFORNIA PROPOSITION 65:

None of the ingredients are on the California proposition 65 list.

XVI. OTHER INFORMATION

DISCLAIMER: The information contained in this safety data sheet is based on the knowledge of this specific product and current national legislation. It applies to the product as sold, use dilutions may be less hazardous. It may not be valid for this material if used in combination with any other materials or in a process. It is the user's responsibility to evaluate the applicability of this information for his particular conditions of storage, handling, and use.