

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **LIQUID CIRKET 880**

Printing Date: 10/12/2015

Product Use: Chlorinated CIP Cleaner/Automatic Dishwash.

Company Identification:

US Headquarters

ORCHEM CORPORATION

4927 Beech Street

Cincinnati, Ohio 45212

General Information

Health/Transportation Emergency-Chem-Tel

Fax

E-Mail

Contact Information:

(513) 874-9700

(800) 255-3924

(513) 874-3624

information@orchemcorp.com

2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Corrosive to metals (Category 1), H290

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

PICTOGRAM:



SIGNAL WORD: DANGER

HAZARD STATEMENTS – LABEL ELEMENTS

Health Hazard Statement(s)

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H318

Causes serious eye damage.

H335

May cause respiratory irritation.

H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

Physical Hazards Statement(s)

H290

Maybe corrosive to metals.

Precautionary Statement(s) – Prevention

P260

Do not breathe dust, fume, gas, mist, vapors, and spray.

P264

Wash skin and contaminated clothing thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P273

Avoid release to the environment.

P280

Wear protective gloves, eye protection, face protection.

Precautionary Statement(s) – Response

P301 + P330 + P331 + P310

IF SWALLOWED: Rinse mouth. No NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P303 + P361 + P353 + P363

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 + P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Precautionary Statement(s) – Storage

P405

Store locked up.

Precautionary Statement(s) – Disposal

P501

Dispose of contents/container in accordance with applicable local, regional, national, and/or international regulations.

Hazards Not Otherwise Classified (HNOC)

None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS#	WEIGHT %
potassium hydroxide	1310-58-3	10-15
diphosphoric acid, potassium salt	7320-34-5	1-5
sodium hypochlorite	7681-52-9	1-5

< 1% of mixture consists of ingredients of unknown toxicity. Exact percentages are withheld as trade secrets.

4. FIRST AID MEASURES

EYE CONTACT: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After 5 minutes check for and remove any contact lenses. Continue to rinse for at least 15 minutes.

SKIN CONTACT: Get medical attention immediately. Wash with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Destroy contaminated shoes.

INHALATION: Get medical attention immediately. Remove from exposure and move to fresh air immediately and keep in position comfortable for breathing. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

INGESTION: Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep airway clear.

NOTES TO PHYSICIAN: No data available.

5. FIRE FIGHTING MEASURES

GENERAL INFORMATION: As in any fire, wear a self contained breathing apparatus in pressure-demand, MSHA/NIOSH (Approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion involved in a fire (hydrogen chloride gas, chlorine gas). Use water spray to keep fire exposed container cool.

EXTINGUISHING MEDIA: Use dry chemical, foam or carbon dioxide. Do not use straight streams of water.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Other Release: Remove sources of ignition. Ventilate area. Keep unnecessary personnel away. Use appropriate personal protective equipment as indicated in Section 8 of the SDS when risk assessment indicated this is necessary. Use non-sparking tools and equipment. Dike to prevent spread. Absorb with inert material. Sweep or shovel spilled materials in suitable containers. Dispose of in accordance with all local, state, and federal requirements. Do not allow product or residue to enter waterway or any source of drinking water.

7. HANDLING AND STORAGE

Handling: Use appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in original container. Do not reuse container.

Storage: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool, and well ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Protect from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower (ANSI Z358.1). Use adequate general or local explosion-proof ventilation (typically 10 air changes per hour) to keep airborne levels to acceptable levels.

COMPONENT	CAS#	ACGIH TWA	ACGIH STEL	ACGIH CEILING	OSHA FINAL PEL TWA	IDLH
potassium hydroxide	1310-58-3	---	---	2 mg/m ³	---	---
sodium hypochlorite	7681-52-9	---	2 mg/m ³	---	---	---

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear chemical splash goggles that meet the requirements of 29 CFR 1910.133 or European Standard EN 166.

Skin: Wear appropriate protective gloves to prevent skin exposure (29 CFR 1910.138 or EN374).

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Clear
Color:	Pale Yellow
Odor:	Mild Bleach
Boiling Point/Range:	No Data
Freezing Point/Range:	No Data
Flash Point:	None
Phosphorous Content as %P:	~ 0.6
Vapor Pressure:	No Data
Vapor Density (air=1):	No Data
V.O.C.:	None
Specific Gravity (water=1):	~ 1.12
Water Solubility:	100%
pH:	~ 13 @ 100%
Volatility:	No Data
Evaporation Rate:	No Data

10. STABILITY AND REACTIVITY

Stability: The product is stable.

Incompatibility with Various Substances: Reactive or incompatible with the following materials: acids, ammonium hydroxide, powdered metals, and methanol.

Hazardous Polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous Decomposition Products: Decomposition products may include the following materials: toxic fumes of chlorine, sodium oxides, and potassium oxides.

11. TOXICOLOGICAL INFORMATION

TOXICITY: No Data Available For Product.

CARCINOGENICITY:

Product/Ingredient Name	ACGIH	IARC	NTP
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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL INFORMATION: No Data Available For Product.

13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. U.S. EPA guidelines for the classifications are listed in 40 CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classifications.

14. TRANSPORTATION INFORMATION

U.S. DOT Bill of Lading Description: UN 3266, corrosive liquid, basic, inorganic, N.O.S. (Potassium Hydroxide, Sodium Hypochlorite), 8, II

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL).

U.S. REGULATIONS

CALIFORNIA PROPOSITION 65: None of the components of this product are listed.

STATE RIGHT TO KNOW (RTK)

INGREDIENT(S)	CAS#	MA	NJ	PA	MN
potassium hydroxide	1310-58-3	X	X	X	X
tetrapotassium pyrophosphate	7320-34-5	X	X	X	---
sodium hypochlorite	7681-52-9	X	X	X	---

CERCLA/SARA 302/304

INGREDIENT(S)	CAS#	WEIGHT %	CERCLA/SARA RQ(LBS)	SECTION 302TPQ (LBS)
potassium hydroxide	1310-58-3	15-20	1000	---

SARA 311/312 Hazard categories

Immediate: X
Delayed: ---
Fire: ---
Reactivity: ---
Sudden Release of Pressure: ---

SARA 313:

None.

Clean Air Act:

Not regulated.

Clean Water Act:

CAS# 1318-58-3 is listed.

16. OTHER INFORMATION

Hazardous Material

Information System (U.S.A.)

Health: 3

Flammability: 0

Physical Hazard: 0

National Fire Protection

Association (U.S.A.)

Health: 3

Flammability: 0

Instability: 0

HMIS and NFPA use a numbering scale ranging from 0-4 to indicate the degree of hazard. A value of 0 means that the substance possesses essentially no hazard; a rating of 4 indicates high hazard.

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Prepared by: Compliance Group

The information contained in this Safety Data Sheet is intended to comply with the requirements of 29 CFR 1910.1200. This information is believed to be accurate and based on data available to ORCHEM CORPORATION at this time. It is intended to be used as a guide to the safe handling and use by properly trained individuals. It is the end users responsibility to determine the suitability of the information for their particular purposes. This information is provided without warranty.