SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **BREAKAWAY 315**
Printing Date: 05/27/2015
Product Use: Chlorinated CIP cleaner/Dishwash.
Company Identification:

US Headquarters
ORCHEM CORPORATION
4927 Beech Street
Cincinnati, Ohio 45212

Contact Information:
General Information (513) 874-9700
Health/Transportation Emergency-Chem-Tel (800) 255-3924
Fax (513) 874-3624
E-Mail 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	15-20
sodium phosphate	7758-29-4	5-10
diphosphoric acid, potassium salt	7320-34-5	1-5
sodium hypochlorite	7681-52-9	1-5

< 14% 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 form 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:	~ 2.5
Vapor Pressure:	No Data
Vapor Density (air=1):	No Data
V.O.C.:	None

Specific Gravity (water=1):	~ 1.3
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
sodium phosphate	7758-29-4	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.
Date of Creation: 02/28/1996
Issue Number: 5.0
Date of Revision: 05/27/2015
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.