

# **Product: Electro CLNR-PRO 311**

The **Electro** Solution for Critical Cleaning Needs.

CleanerEng.com Cleaner Engineering 660 4<sup>th</sup> Street Suite 105 San Francisco, CA 94107 **EMERGENCY CONTACT** 

Toll Free USA: 1-833-CLNRENG [833-256-7364] International clients: +1-833-256-7364 email: sales@cleanereng.com

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### **SECTION I - SUBSTANCE IDENTIFICATION**

COMMON NAME: Electro CLNR-PRO 311 CAS NUMBER: Not Established

**PRODUCT USE:** Concentrated Cleaner

CHEMICAL FORMULA: Solution of Alkaline Salt1 + Alkaline Salt2 + Proprietary Compounds for Electrostatic fusion+ DI Water

# SECTION 2 - Composition/Information on Ingredients

CHEMICAL	CAS#	% BY WEIGHT	<b>EXPOSURE LIMITS</b>
Alkaline Salt1 (trade secret)	N/A	30-97%	Not Established
Alkaline Salt2 (trade secret)	N/A	1-30%	Not Established
Potassium Hydroxide	1310-58-3	.1-10%	2 mg/m3 TLV
Proprietary Compound A	Not Established	<1%	Not Established
Proprietary Compound B	Not Established	<1%	Not Established
Proprietary Compound C	.Not Established	<1%	Not Established
Water	7732-18-5	40-70%	Not Established

## **SECTION 3 – HEALTH HAZARD DATA**

CAUTION! CORROSIVE. MAY CAUSE IRRITATION OR BURNS TO SKIN. IF INHALED WILL CAUSE IRRITATION TO RESPIRATORY TRACT.

### **NFPA RATINGS**



Health Rating: 2 Flammability: 0 Reactivity: 0

### **SAF-T-DATA™** Ratings

Health Rating: 2 – Acute Effects Flammability Rating: 0 Reactivity Rating: 0

Reactivity Rating: 0
Contact Rating: 4 – Extreme (Corrosive)
Physical/Chemical Hazards: Corrosive



Human health hazards: May cause irritation to skin

Environmental hazards: Do not allow material to be released to the environment without proper government permits.

### **POTENTIAL HEALTH EFFECTS:**

Inhalation: Vapors and mists may cause irritation to the respiratory tract.

**Ingestion:** Toxic! May cause corrosion to the esophagus and stomach with perforation and peritonitis. Symptoms may include pain in the mouth, and abdomen.

Skin Contact: Causes irritation and burns to the skin.

Eye Contact: May cause irritation, eye damage, and permanent blindness.

Chronic Exposure: Repeated exposure may cause damage to the tissues of the mucous membranes, upper respiratory tract, eyes and skin.

**Aggravation of Pre-existing Conditions:** Persons with pre-existing eye disorders or impaired respiratory function may be more susceptible to the effects of this material.

#### - EMERGENCY AND FIRST AID PROCEDURES -

**INHALATION:** Immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen if available. Call a physician immediately.

**INGESTION:** If swallowed, **DO NOT INDUCE VOMITING** unless directed to do so by medical. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Give large quantities of water. Rinse mouth. Get medical attention immediately.

**EYES:** Check for and remove any contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately. Immediate action is critical to minimize possibility of blindness.

**SKIN:** Flush thoroughly for minimum of 15 minutes. Remove any contaminated clothing and shoes. Wash any affected skin with soap and water. Seek medical assistance if irritation persists

## **SECTION 4 - PROTECTIVE EQUIPMENT AND SAFETY MEASURES**

**RESPIRATORY PROTECTION:** If the exposure limit is exceeded and engineering controls are not feasible, a half face mask respirator with an acid cartridge may be worn up to 10 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full face mask positive-pressure, air-supplied respirator.

WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

**EYE PROTECTION:** Use tightly sealed goggles when handling or using this solution. Maintain eye wash station and safety shower in the work area.

**SKIN PROTECTION:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Neoprene, nitrile, or rubber are recommended materials.



**VENTILATION:** Use in a well ventilated area. A system of local and/or general exhaust is required to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

#### **SECTION 5 - EXPOSURE LIMITS**

### **Occupational Exposure limits:**

- Not established for this solution
- Potassium Hydroxide Solution ACGIH Threshold Limit Value (TLV): 2 mg/m3 CEIL

### **SECTION 6 - FIRE AND EXPLOSION DATA**

Fire: No specific hazard

Explosion: Not established

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire. Suitable extinguishing media are water spray, dry extinguishing media, foam and carbon dioxide.

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face mask operated in the pressure demand or other positive pressure mode and a chemical splash suit (level B) with flash protection.

### **SECTION 7 - ACCIDENTAL RELEASE MEASURES**

Personal precautions: Wear goggles, caustic resistant gloves, boots, and caustic resistant protective clothing.

Environmental precautions: Do not allow substance to enter sewage system, surface or ground water.

**Methods for cleaning up:** Contain the spill by diking/absorbing with liquid-binding material (sand, diatomite, caustic binders, and universal binders). Ensure adequate ventilation.

**US Regulations (CERCLA):** Required reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

Further information: High risk of slipping due to leakage/spillage of product.

### **SECTION 8 - HANDLING & STORAGE**

### **HANDLING**

## Information for safe handling:

Ensure good ventilation/exhaust at the workplace.

### Information about protection against explosions and fires:

No special measures required.

# STORAGE

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- 1. Store between 10 and 25 Degrees C.
- 2. Can be stored up to 5 years.
- 3. Keep containers tightly sealed.
- 4. Store away from acids.
- Protect from direct sunlight.

Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid).

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical state: LiquidColor: ColorlessOdor: No odor

Boiling point: >100 degrees C
 Melting point: Not Established
 Flash point: Not Established

Self ignition temperature: Not Established

Vapor pressure: Not Established
 Vapor density: Not Established
 Density at (20 °C): 1.00 g/m3

Solubility in water: Yes – Completely Soluble

• Undiluted pH: 12-13, after dilution 1:10 with DI water pH 10-11

### **SECTION 10 - STABILITY AND REACTIVITY**

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Not Established

**Incompatibilities:** Aqueous solutions are incompatible with alkali and alkaline earth metals and many reactive organic and inorganic chemicals. Acids.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

LD50/oral/rat: Not Established

Primary irritant effect on the skin and eye: Irritant Sensitization: No sensitizing effects known.

### **SECTION 12 - DISPOSAL CONSIDERATIONS**

- 1. Do not allow product to reach sewage system.
- 2. Dispose of product (including packaging) in accordance with applicable regulations.

## **SECTION 13 - ECOLOGICAL INFORMATION**

1. General notes:

Do not allow product to reach ground water, water course or sewage system.



#### Toxicity to fish: Not Established

- 3. **Activated sludge:** inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
- 4. **Elimination information:** This product can be virtually eliminated from water by biotic processes, e.g. adsorption onto activated sludge

### **SECTION 14 - TRANSPORTATION INFORMATION**

Domestic (Land, D.O.T.)

Proper Shipping Name: Corrosive Liquid n.o.s (Potassium Hydroxide Solution)

Hazard Class: 8
 UN Number: UN1760
 Packing Group: III

## International (Water, I.M.O.)

Proper Shipping Name: Corrosive Liquid n.o.s (Potassium Hydroxide Solution)

Hazard Class: 8UN Number: UN1760Packing Group: III

#### **SECTION 15 - REGULATIONS**

- CERCLA Hazardous Substances (with reportable quantity): None
- Extremely Hazardous Substances (with threshold quantity): None
- Toxic Chemicals (Section 313): None
- TSCA Inventory: All ingredients on TSCA 8 (b) inventory Proposition 65 List: None
- Clean Water Act Hazardous Substance List (with reportable quantity): None
- Clean Air Act Accidental Release Prevention Substance, section 112 r (with threshold quantity): None
- PSM Highly Hazardous Chemical List (with threshold quantity): None

#### Safety phrases:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

In case of accident seek medical advice immediately.

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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