

# Safety Data Sheet

## SECTION 1: Identification of the substance/mixture and the company/undertaking

### 1.1 Production identifiers

Product name : CAUSTIC POTASH  
Brand : CJ Chemicals LLC  
CAS-No. : 1310-58-3

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, synthesis of substances

### 1.3 Details of the supplier of the safety data sheet

Company : CJ Chemicals LLC  
3469 E Grand River Rd #112  
Howell, MI 48843  
United States

Telephone : +1 (888) 274-1044

### 1.4 Emergency Telephone

Emergency Phone # : 1-800-424-9300 CHEMTREC (USA)  
1-703-527-3887 CHEMTREC (international) 24 hours/day; 7 days/week

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## 2. HAZARDS IDENTIFICATION

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**CAUSTIC POTASH LIQUID (ALL GRADES)**

SDS No.: M31866

SDS Revision Date: February 21,  
2014

Rev. Num. 42

**OSHA REGULATORY STATUS:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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**EMERGENCY OVERVIEW:**

**Color:** Colorless  
**Physical state** Liquid  
**Appearance:** Clear  
**Odor:** Odorless

**Signal Word:** **DANGER**

**MAJOR HEALTH HAZARDS:** CORROSIVE. INGESTION HAZARD. HEALTH HAZARD. CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. TOXIC IF SWALLOWED. MAY CAUSE DAMAGE TO GASTROINTESTINAL TRACT AND RESPIRATORY SYSTEM.

**PHYSICAL HAZARDS:** MAY BE CORROSIVE TO METALS. Mixing with water, acid or incompatible materials may cause splattering and release of heat. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated.

**ECOLOGICAL HAZARDS:** This material has exhibited moderate toxicity to aquatic organisms.

**PRECAUTIONARY STATEMENTS:** Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist. Keep container tightly closed. Wash thoroughly after handling. Use with adequate ventilation.

**ADDITIONAL HAZARD INFORMATION:** Toxicity may be delayed, and may not be readily visible. Significant exposures must be referred for medical attention immediately. There is no specific antidote.

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**GHS CLASSIFICATION:**

GHS: PHYSICAL HAZARDS:	Corrosive to Metals
GHS: CONTACT HAZARD - SKIN:	Category 1B - Causes severe skin burns and eye damage
GHS: CONTACT HAZARD - EYE:	Category 1 - Causes serious eye damage
GHS: ACUTE TOXICITY - ORAL:	Category 3 - Toxic if swallowed
GHS: TARGET ORGAN TOXICITY (SINGLE EXPOSURE):	Category 1 - Causes damage to: Gastrointestinal System, Respiratory System
GHS: CARCINOGENICITY:	This product is not classified as a carcinogen by NTP, IARC or OSHA.
GHS: HAZARDOUS TO AQUATIC ENVIRONMENT - ACUTE HAZARD:	Category 3 - Harmful to aquatic life

**UNKNOWN ACUTE TOXICITY:**

Not applicable. This product is a substance, and this information is only applicable to mixtures.

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### GHS SYMBOL:

Corrosion, Skull and Crossbones, Health hazards



**GHS SIGNAL WORD: DANGER**

### GHS HAZARD STATEMENTS:

#### GHS - Physical Hazard Statement(s)

May be corrosive to metals

#### GHS - Health Hazard Statement(s)

Causes severe skin burns and eye damage

Causes serious eye damage

Toxic if swallowed

Causes damage to organs (Gastrointestinal System and Respiratory System)

#### GHS - Precautionary Statement(s) - Prevention

Keep only in original container

Wash thoroughly after handling

Do not breathe dust, fume, gas, mist, vapors, or spray

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

#### GHS - Precautionary Statement(s) - Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)

Absorb spillage to prevent material damage

#### GHS - Precautionary Statement(s) - Storage

Store in corrosive resistant and NON-ALUMINUM container with a resistant inner liner (NOTE: flammable hydrogen gas may be generated if aluminum container and/or aluminum fittings are used)

Store locked up

#### GHS - Precautionary Statement(s) - Disposal

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

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**Hazards Not Otherwise Classified (HNOC)**

None identified

**See Section 11: TOXICOLOGICAL INFORMATION**

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Synonyms:** KOH, liquid potash, Potassium Hydroxide

Component	Percent [%]	CAS Number
Water	49 - 90	7732-18-5
Potassium hydroxide	10 - 51	1310-58-3

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### 4. FIRST AID MEASURES

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**INHALATION:** If inhalation of mists, vapors, or spray occurs and adverse effects result, remove to uncontaminated area. Evaluate ABC's (is Airway constricted, is Breathing occurring, and is blood Circulating) and treat symptomatically. GET MEDICAL ATTENTION IMMEDIATELY.

**SKIN CONTACT:** Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry and shoes. Wash contaminated areas with large amounts of water. GET MEDICAL ATTENTION IMMEDIATELY. Thoroughly clean and dry contaminated clothing before reuse. Discard contaminated leather goods.

**EYE CONTACT:** Immediately flush contaminated eyes with a directed stream of water for as long as possible. Remove contact lenses, if present, then continue rinsing. GET MEDICAL ATTENTION IMMEDIATELY.

**INGESTION:** If swallowed, do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. Never give anything by mouth to an unconscious or convulsive person. GET MEDICAL ATTENTION IMMEDIATELY.

**Most Important Symptoms/Effects (Acute and Delayed)** Corrosive. This material may be corrosive to any tissue it comes in contact with. It can cause serious burns and extensive tissue destruction resulting in: liquefaction, necrosis, and/or perforation.

**Acute Symptoms/Effects:** Listed below

**Inhalation (Breathing):** Respiratory System Effects: Exposure to airborne material may cause irritation, redness of upper and lower airways, coughing, laryngeal spasm and edema, shortness of breath, bronchio-constriction, and possible pulmonary edema. Severe and permanent scarring may occur. Aspiration of this material may cause the same conditions.

**Skin:** Skin Corrosion: Exposure to skin may cause redness, itching, irritation, swelling, burns (first, second, or third degree), liquefaction of skin, and damage to underlying tissues (deep and painful wounds).

**Eye:** Serious Eye Damage: Eye exposures may cause eye lid burns, conjunctivitis, corneal edema, corneal burn, corneal perforation, damage to internal contents of the eye, permanent visual defects, and blindness and/or loss of the eye.

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**Ingestion (Swallowing):** Gastrointestinal System Effects: Exposure by ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

**Delayed Symptoms/Effects:**

- Repeated or prolonged exposures to skin that cause irritation may cause a chronic dermatitis

**Medical Conditions Aggravated by Exposure:** Corrosive. May aggravate pre-existing eye, skin, and respiratory conditions (including asthma and other breathing disorders).

**Protection of First-Aiders:** Protect yourself by avoiding contact with this material. Use personal protective equipment. Refer to Section 8 for specific personal protective equipment recommendations. Avoid contact with skin and eyes. Do not ingest. Do not breathe vapors or spray mist. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

**Notes to Physician:** The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage. Probable mucosal damage may contraindicate the use of gastric lavage. There is no specific antidote.

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## 5. FIRE-FIGHTING MEASURES

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**Fire Hazard:** Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. May react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc. to release hydrogen gas which can form explosive mixtures in air.

**Extinguishing Media:** Use extinguishing agents appropriate for surrounding fire.

**Fire Fighting:** Move container from fire area if it can be done without risk. Cool containers with water. Do not apply water directly on this product. Heat is generated when mixed with water. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Avoid contact with skin.

**Sensitivity to Mechanical Impact:** Not sensitive.

**Sensitivity to Static Discharge:** Not sensitive.

**Lower Flammability Level (air):** Not applicable

**Upper Flammability Level (air):** Not applicable

**Flash point:** Not flammable

**Auto-ignition Temperature:** Not determined

**GHS: PHYSICAL HAZARDS:**

- Corrosive to Metals

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:**

Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS.

**Methods and Materials for Containment and Cleaning Up:**

In case of spill or leak, stop the leak as soon as possible. Small and large spills: Contain spilled material if possible. Completely contain spilled materials with dikes, sandbags, etc. After containment, collect the spilled material and transfer to a chemical waste area. Liquid material may be removed with a vacuum truck. Neutralize residue with dilute acid and follow with a liberal covering of sodium bicarbonate or other acceptable drying agent. See Section 13, Disposal considerations, for additional information.

**Environmental Precautions:**

Keep out of water supplies and sewers. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies.

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## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling:**

Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. When mixing, slowly add to water to minimize heat generation and spattering.

**Safe Storage Conditions:**

Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

**Incompatibilities/ Materials to Avoid:**

Flammable liquids, acids, halogenated compounds, water, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

**GHS: PHYSICAL HAZARDS:**

- Corrosive to Metals

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Regulatory Exposure Limit(s): None.

*OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit*

NON-REGULATORY EXPOSURE LIMIT(S): As listed below.

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- *The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits, if shown, are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).*

- The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

**ENGINEERING CONTROLS:** Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT:**

**Eye Protection:** Wear chemical safety goggles with a face-shield to protect against eye and skin contact when appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin and Body Protection:** Wear protective clothing to minimize skin contact. When potential for contact with wet material exists, wear Tychem® or similar chemical protective suit. When potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek®. Always place pants legs over boots. Thoroughly clean and dry contaminated clothing before reuse. Discard contaminated leather goods.

**Hand Protection:** Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

**Protective Material Types:** Butyl rubber, Natural rubber, Nitrile, Polyvinyl chloride (PVC), Tychem®, Tyvek®

**Respiratory Protection:** A NIOSH approved respirator with N95 dust/mist filter (1/2 facepiece) or N100 dust/mist filter (full facepiece) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. If eye irritation occurs, a full face style mask should be used. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	Liquid
<b>Appearance:</b>	Clear
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless
<b>Odor Threshold [ppm]:</b>	Not Available
<b>Molecular Weight:</b>	56.11
<b>Molecular Formula:</b>	KOH
<b>Boiling Point/Range:</b>	216 to 289 °F (102 to 143 °C )
<b>Freezing Point/Range:</b>	-85 to 39 °F (-65 to 4 °C)
<b>Vapor Pressure:</b>	4 mmHg @ 77°F (25°C) 50% solution 20 mmHg @ 77°F (25°C) 20% solution
<b>Vapor Density (air=1):</b>	No data available

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<b>Relative Density - Specific Gravity (water=1):</b>	1.09 - 1.52 @ 15.6 °C
<b>Density:</b>	9.09 - 12.67 lbs/gal @ 15.6 °C
<b>Water Solubility:</b>	100%
<b>pH:</b>	12 - 14
<b>VOC Content (%):</b>	0%
<b>Volatility:</b>	No data available
<b>Evaporation Rate (ether=1):</b>	No data available
<b>Partition Coefficient (n-octanol/water):</b>	Not applicable
<b>Flash point:</b>	Not flammable
<b>Flammability (solid, gas):</b>	Not flammable
<b>Lower Flammability Level (air):</b>	Not applicable
<b>Upper Flammability Level (air):</b>	Not applicable
<b>Auto-ignition Temperature:</b>	Not determined
<b>Viscosity:</b>	No data available

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**10. STABILITY AND REACTIVITY**

**Reactivity:** Soluble in water, releasing heat sufficient to ignite combustibles. Reacts with acids, giving off heat.

**Chemical Stability:** Stable at normal temperatures and pressures.

**Conditions to Avoid:**

Mixing with water, acid, or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

**Incompatibilities/ Materials to Avoid:**

Flammable liquids, acids, halogenated compounds, water, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

**Hazardous Decomposition Products:** None known

**Hazardous Polymerization:** Will not occur.

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**11. TOXICOLOGICAL INFORMATION****TOXICITY DATA:****PRODUCT TOXICITY DATA: CAUSTIC POTASH-LIQUID (ALL GRADES)**

<b>LD50 Oral:</b> 273 mg/kg oral-rat LD50	<b>LD50 Dermal:</b> Not listed	<b>LC50 Inhalation:</b> Not listed
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**COMPONENT TOXICITY DATA:**

Component	LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
Water 7732-18-5	90 mL/kg (Rat)	-----	-----
Potassium hydroxide 1310-58-3	273 mg/kg (Rat)	-----	-----

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**POTENTIAL HEALTH EFFECTS:**

- Eye contact:** Corrosive. Causes serious eye damage which can result in: severe irritation, pain and burns, and permanent damage including blindness.
- Skin contact:** Corrosive. Causes severe skin burns. Prolonged or repeat skin exposures can result in dermatitis.
- Inhalation:** Toxic if inhaled. Corrosive. May cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes. This material can be extremely destructive to the tissue of the mucus membranes and respiratory system.
- Ingestion:** Toxic if swallowed. Corrosive. May cause severe mucus membrane burns and gastrointestinal burns. If swallowed, may pose a lung aspiration hazard during vomiting. Lung aspiration may result in chemical pneumonitis, pulmonary edema, and damage to lung tissue or death.
- Chronic Effects:** Repeated or prolonged skin contact may result in dermatitis.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

This material may cause severe burns and permanent damage to any tissue with which it comes into contact. Signs and symptoms of exposure vary, and are dependent on the route of exposure, degree of exposure, and duration of exposure. Aspirating this material may cause signs and symptoms that are similar to those experienced as a result of breathing or inhaling this material.

**Inhalation (Breathing):** Respiratory System Effects: Exposure to airborne material may cause irritation, redness of upper and lower airways, coughing, laryngeal spasm and edema, shortness of breath, bronchio-constriction, and possible pulmonary edema. Severe and permanent scarring may occur. Aspiration of this material may cause the same conditions.

**Skin:** Skin Corrosion: Exposure to skin may cause redness, itching, irritation, swelling, burns (first, second, or third degree), liquefaction of skin, and damage to underlying tissues (deep and painful wounds).

**Eye:** Serious Eye Damage: Eye exposures may cause eye lid burns, conjunctivitis, corneal edema, corneal burn, corneal perforation, damage to internal contents of the eye, permanent visual defects, and blindness and/or loss of the eye.

**Ingestion (Swallowing):** Gastrointestinal System Effects: Exposure by ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

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## ACUTE TOXICITY:

When in solution, this material will affect all tissues with which it comes in contact. The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact.

## CHRONIC TOXICITY:

Repeated and prolonged skin contact may result in dermatitis.

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## GHS HEALTH HAZARDS:

Listed below

**GHS: ACUTE TOXICITY - ORAL:** Category 3 - Toxic if swallowed

**Skin Absorbent / Dermal Route?** No.

**GHS: CONTACT HAZARD - SKIN:** Category 1B - Causes severe skin burns and eye damage

**GHS: CONTACT HAZARD - EYE:** Category 1 - Causes serious eye damage

**GHS: CARCINOGENICITY:** This product is not classified as a carcinogen by NTP, IARC or OSHA

## SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):

Gastrointestinal system

Respiratory system

# 12. ECOLOGICAL INFORMATION

## ECOTOXICITY DATA:

### Aquatic Toxicity:

This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material has exhibited moderate toxicity to aquatic organisms.

### Freshwater Fish Toxicity:

LC50 (Mosquito fish): 80 mg/L/96 hr (static bioassay in fresh water at 18-19 C)

LC50 (Fathead Minnow): 179 mg/L/96 hr (static at 22.3-24.7 C)

### Invertebrate Toxicity:

EC50 (Daphnia magna): 60 mg/L/48 hr (static bioassay at 20.3-20.7 C)

### Algae Toxicity:

ErC50 (Selenastrum capricornutum): 61 mg/L/96 hr (static bioassay at 23-23.9 C)

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**BIODEGRADATION:** This material will disassociate into ionic form in the aquatic environment. Natural carbon dioxide will slowly neutralize this material.

**BIOCONCENTRATION:** This material will not bioconcentrate.

**ADDITIONAL ECOLOGICAL INFORMATION:** This material has exhibited slight toxicity to terrestrial organisms.

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### 13. DISPOSAL CONSIDERATIONS

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**Waste from material:**

Reuse or reprocess, if possible. May be subject to disposal regulations. Dispose of in accordance with all applicable regulations.

**Container Management:**

Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

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### 14. TRANSPORT INFORMATION

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**U.S. DOT 49 CFR 172.101:**

**UN NUMBER:** UN1814  
**PROPER SHIPPING NAME:** Potassium hydroxide, solution  
**HAZARD CLASS/ DIVISION:** 8  
**PACKING GROUP:** II  
**LABELING REQUIREMENTS:** 8  
**RQ (lbs):** RQ 1,000 Lbs. (Potassium hydroxide)

**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:**

**UN NUMBER:** UN1814  
**SHIPPING NAME:** Potassium hydroxide, solution  
**CLASS OR DIVISION:** 8  
**PACKING/RISK GROUP:** II  
**LABELING REQUIREMENTS:** 8

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### 15. REGULATORY INFORMATION

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**U.S. REGULATIONS**

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**OSHA REGULATORY STATUS:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):**

If a release is reportable under CERCLA section 103, notify the state emergency response commission and local emergency planning committee. In addition, notify the National Response Center at (800) 424-8802 or (202) 426-2675.

Component	CERCLA Reportable Quantities:
Potassium hydroxide	1000 lb (final RQ)

**SARA EHS Chemical (40 CFR 355.30)**

Not regulated

**EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):**

Acute Health Hazard

**EPCRA SECTION 313 (40 CFR 372.65):**

Not regulated.

**OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):**

Not regulated

**FDA:** This material has Generally Recognized as Safe (GRAS) status under specific FDA regulations. Additional information is available from the Code of Federal Regulations which is accessible on the FDA's website. This product is not produced under all current Good Manufacturing Practices (cGMP) requirements as defined by the Food and Drug Administration (FDA).

**NATIONAL INVENTORY STATUS**

**U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA):** All components are listed or exempt.

**TSCA 12(b):** This product is not subject to export notification.

**Canadian Chemical Inventory:** All components of this product are listed on either the DSL or the NDSL.

**STATE REGULATIONS**

Component	California Proposition 65 Cancer WARNING:	California Proposition 65 CRT List - Male reproductive toxin:	California Proposition 65 CRT List - Female reproductive toxin:	Massachusetts Right to Know Hazardous Substance List	New Jersey Right to Know Hazardous Substance List	New Jersey Special Health Hazards Substance List
Potassium hydroxide 1310-58-3	Not Listed	Not Listed	Not Listed	Listed	1571	corrosive

Component	New Jersey - Environmental Hazardous Substance List	Pennsylvania Right to Know Hazardous Substance List	Pennsylvania Right to Know Special Hazardous Substances	Pennsylvania Right to Know Environmental Hazard List	Rhode Island Right to Know Hazardous Substance List

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<b>Potassium hydroxide 1310-58-3</b>	Not Listed	Listed	Not Listed	Present	Listed
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**CANADIAN REGULATIONS**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**WHMIS - Classifications of Substances:**

- D1B - Poisonous and Infectious Material; Materials causing immediate and serious toxic effects - Toxic material
- E - Corrosive material

**16. OTHER INFORMATION**

**Prepared by:** OxyChem Corporate HESS - Product Stewardship

**Rev. Date:** 26-Aug-2014

**HMIS: (SCALE 0-4)** (Rated using National Paint & Coatings Association HMIS: Rating Instructions, 2nd Edition)

**Health Rating:** 3

**Flammability Rating:** 0

**Reactivity Rating:** 0

**NFPA 704 - Hazard Identification Ratings (SCALE 0-4)**

**Health Rating:** 3

**Flammability:** 0

**Reactivity Rating:** 1

**Reason for Revision:**

- Three year review
- Updated the (M)SDS header
- Changed the SDS format to meet the GHS requirements of the revised 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Updated First Aid Measures: SEE SECTION 4
- Modified Fire Fighting Measure Recommendations: SEE SECTION 5
- Revised Handling and Storage Recommendations: SEE SECTION 7
- Revised Accidental Release Measures: SEE SECTION 6
- Stability and Reactivity recommendations: SEE SECTION 10
- Toxicological Information has been revised: SEE SECTION 11
- Updated Disposal Considerations. SEE SECTION 13
- Revised Preparer Information: SEE SECTION 16
- Added SDS Revision Date: SEE SECTION 16
- Added "End of Safety Data Sheet" phrase

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**IMPORTANT:**

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and OxyChem assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws.

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees

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**End of Safety Data Sheet**