



## Section 1 - Identification

**Product Name:** Potassium Hydroxide 50%  
**Alternate Name:** (internal# CPL2016B)  
**Recommended Use:** Boiler water treatment  
**Manufacturer:** Chem Pro Laboratory, Inc., 941 W 190th St, Gardena CA 90248, 310-532-8611  
**ChemTrec:** 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 - Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

### **DANGER**



**Toxic if swallowed**

**May be corrosive to metals**

**Causes severe skin burns and serious eye damage**

Do not breathe dusts or mists.

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

Keep only in original container.

Wash contacted areas thoroughly after handling.

Wear eye and face protection, and protective gloves and clothing.

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.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash skin with plenty of water. Wash contaminated clothing before reuse.

IF SWALLOWED: Call a poison center or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Absorb spillage to prevent material damage.

Store locked up, in corrosive resistant container with a resistant inner liner.

Dispose of contents/container in accordance with federal, state, and local regulations.

## Section 3 - Composition/information on ingredients

Chemical Name	CAS Number	Percent
potassium hydroxide	1310-58-3	50-60%

## Section 4 - First-aid measures

### Emergency and First Aid Procedures:

**Inhalation** Remove to fresh air. If symptoms persist, get medical attention.  
**Eye Contact** Immediately flush with plenty of water, continuing for at least 15 minutes. Get medical attention.  
**Skin Contact** Promptly wash with plenty of soap and water.  
**Ingestion** Give large amounts of water to drink and call a physician. Do not induce vomiting.



**Symptoms of Overexposure:**

<b>Inhalation</b>	Inhalation of product dust or mist may irritate respiratory tract.
<b>Contact with Skin or Eyes</b>	Eye contact may cause blindness.
<b>Absorption Through Skin</b>	Contact with body tissue causes severe burns.
<b>Ingestion</b>	Swallowing can be fatal.

**Section 5 - Fire-fighting measures**

<b>Extinguishing Media</b>	carbon dioxide, dry chemical, or appropriate foam
<b>Fire Fighting Procedure</b>	Substance is nonflammable
<b>Unusual Fire/Explosion Hazard</b>	None
<b>Hazardous Combustion Products</b>	Substance is noncombustible

**Section 6 - Accidental release measures**

<b>Spill Response Procedure</b>	Dike area to contain spill. Use vacuum trucks (where practical) to pick up spill for controlled disposal or recovery. Neutralize any remaining materials with dilute acid. Use caution - heat release occurs; could cause violent splattering.
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**Section 7 - Handling and storage**

<b>Handling Precautions</b>	Do not get in eyes, on skin, on clothing; avoid breathing mists; do not take internally; wear protective equipment whenever handling. Do not store in magnesium, zinc (galvanized), tin, chromium, brass, bronze or aluminum. Maintain storage temperature between 75 deg F and 140 deg F, in steel equipment.
<b>Storage Conditions</b>	Store in a cool dry place. Keep container tightly sealed in a dry and ventilated area. Do not store unopened containers in direct sunlight for extended periods.

**Section 8 - Exposure controls/personal protection**

<b>Chemical Name</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
potassium hydroxide	not listed	2 mg/m3 (C)
<b>Ventilation</b>	Mechanical (general) exhaust required.	
<b>Respiratory Protection</b>	NIOSH/MSHA approved mechanical filter type for exposure to mists above TLV.	
<b>Protective Gloves</b>	Rubber gloves.	
<b>Eye Protection</b>	Close fitting chemical safety goggles and face shield.	
<b>Other Protective Equipment</b>	Rubber apron, rubber boots, plastic hard hat, PVC clothing, eye wash fountain, safety shower.	
<b>Work / Hygienic Practices</b>	Handle in accordance with good industrial hygiene and safety practices.	

**Section 9 - Physical and chemical properties**

<b>Appearance</b>	White liquid to slightly turbid	<b>Vapor Pressure @20°C</b>	1
<b>Odor</b>	Odorless	<b>Vapor Density</b>	N/A
<b>Odor Threshold</b>	N/A	<b>Specific Gravity</b>	1.5
<b>pH</b>	>12.5	<b>Solubility in Water</b>	Complete
<b>Melting Point, °F</b>	N/A	<b>Partition Coefficient</b>	Not Determined
<b>Boiling Point, °F</b>	288-289 deg F	<b>Auto Ignition Temp, °F</b>	No specific information.



<b>Flash Point, °F</b>	Not Flammable	<b>Decomposition Temp, °F</b>	Not Determined
<b>Evaporation Rate</b>	0.8	<b>Viscosity</b>	Not Determined
<b>Flammability Limits</b>	N/A	<b>Percent Volatile</b>	50

### Section 10 - Stability and reactivity

<b>Reactivity</b>	in water: N/A
<b>Stability</b>	stable under normal conditions
<b>Conditions to Avoid</b>	None
<b>Incompatible Materials</b>	Strong oxidizing agents. Strong acids.
<b>Hazardous Decomposition Products</b>	None
<b>Hazardous Polymerization</b>	Hazardous polymerization will not occur.

### Section 11 - Toxicological information

<b>Routes of Entry</b>	inhalation, skin or eye contact, ingestion
<b>Acute Exposure Symptoms</b>	Contact with body tissue causes severe burns.
<b>Chronic Exposure Effects</b>	Not known
<b>Medical Conditions Aggravated By Exposure</b>	N/A

#### Acute Toxicity:

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
potassium hydroxide	1310-58-3	273 mg/kg	no data	no data

#### Carcinogenicity:

Ingredients are on the following lists of suspected or known carcinogens:

<b>Chemical Name</b>	<b>CAS Number:</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
potassium hydroxide	1310-58-3	No	No	No

### Section 12 - Ecological information

**Overview:** No data

### Section 13 - Disposal considerations

**Preparing Waste For Disposal** Neutralized solutions should be diluted with plenty of water and flushed to the sewer. Contact local waste disposal contractor for disposal of un-neutralized material.

### Section 14 - Transport information

**DOT Shipping** UN1814, POTASSIUM HYDROXIDE, SOLUTION, 8, PG II

### Section 15 - Regulatory information

**California Proposition 65** This product does not contain chemicals listed by California proposition 65.  
**HMS Ratings** Health: 3, Flammability: 0, Reactivity: 1



**Section 16 - Other information**

**Date Prepared** 5/21/2015

**Preparer** Keith Johnson

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