SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier

Product code: P1325
Product Name: POTASSIUM HYDROXIDE, FLAKES, TECHNICAL

Other means of identification

Synonyms: Caustic Potash
Hydroxyde de potassium (French)
Hidróxido de potasio (Spanish)

CAS #: 1310-58-3
RTECS #: TT2100000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Electroplating; photoengraving & lithography; printing inks; in analytical chemistry & in organic synthesis; manufacturing of liquid soap; pharmaceutical aid (as alkalizing agent); mordant for woods; absorbing carbon dioxide; mercerizing cotton; paint & varnish removers. Principle uses of KOH include chemicals, particularly the production of potassium carbonate and potassium permanganate; pesticides, fertilizers, and other agricultural products; soaps and detergents; scrubbing and cleaning operations, e.g., industrial gases; dyes and colorants; and rubber chemicals.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA  90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Corrosive to metals</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements

Product code: P1325
Product name: POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
**Danger**

**Hazard statements**
Toxic if swallowed
Causes severe skin burns and eye damage
May be corrosive to metals

**Hazards not otherwise classified (HNOC)**
Not Applicable

**Other hazards**
Reacts with water to evolve heat

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Keep only in original container

**Precautionary Statements - Response**
Immediately call a POISON CENTER or doctor/physician
Absorb spillage to prevent material damage
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.
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. Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Do NOT induce vomiting

**Precautionary Statements - Storage**
Store locked up
Store in corrosive resistant/....container with a resistant inner liner

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>100</td>
</tr>
</tbody>
</table>

**Product code:** P1325

**Product name:** POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician immediately.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Call a physician immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If victim is conscious, give water or milk. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms
- Severe skin and eye irritation or burns
- Causes digestive (gastrointestinal) tract irritation
- May cause gastrointestinal (digestive) tract burns
- May cause abdominal pain, nausea, vomiting, diarrhea
- Causes chemical burns to the respiratory tract
- May cause inflammation of the lungs (pneumonitis)
- May cause pulmonary edema
- Coughing
- Dyspnea (Shortness of breath and difficulty breathing)

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Product code: P1325
Product name: POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
Hazardous Combustion Products:  No information available.

Specific hazards:  No information available.

**Special Protective Actions for Firefighters**

Specific Methods:  No information available.

Special Protective Equipment for Firefighters:  As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:**  Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Environmental precautions**  Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment**  Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**  Sweep up and shovel. Use appropriate tools to put the spilled solid in a suitable waste disposal container. Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Technical Measures/Precautions:**  Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

**Safe Handling Advice**  Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**  Deliquescent. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segregated and approved area. Store away from incompatible materials.

**Incompatible Materials:**
- Oxidizing agents
- Acids
- Metals
- Powdered metals
- Organic materials
- Water
- Alcohols
- Halogens

**Product code:**  P1325  
**Product name:**  POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
halogenated hydrocarbons
Acid anhydrides
Acid chlorides
Nitro compounds

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>None</td>
<td>2 mg/m³ Ceiling</td>
<td>2 mg/m³ Ceiling</td>
<td>None</td>
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</table>

Canada

<table>
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<tr>
<th>Components</th>
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<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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<td>2 mg/m³ Ceiling</td>
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Australia and Mexico

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<th>Mexico</th>
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</thead>
<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Face-shield.

Skin and body protection: Chemical resistant apron
Long sleeved clothing
Gloves
Boots

Respiratory protection: Wear respirator with dust filter.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid
Appearance: Pellets. Flakes.
Color: Colorless.

Product code: P1325
Product name: POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
### Reactivity
Reactives violently with acids, halogens, halogenated hydrocarbons, maleic anhydride, organic anhydrides, isocyanates, alkylene oxides, epichlorhydrin, aldehydes, alcohols, glycols, phenols, cresols, caprolactum solution. Also incompatible with nitro compounds (nitrobenzene, nitromethane, nitrogen trichloride), organic materials, acid anhydrides, acid chlorides, magnesium, peroxidized tetrahydrofuran, trichlorethylene, chlorine dioxide, maleic dicarbide, sugars. Solid potassium hydroxide in contact with moisture or water may generate sufficient heat to ignite combustible materials. When wet attacks metals such as aluminum, tin, lead, and zinc. Violent reaction or ignition under appropriate conditions with acids, alcohols, p-bis(1,3-dibromomethyl) benzene, cyclopentadiene, germanium, hyponitrous acid, maleic anhydride, nitroalkanes, 2-nitrophenol, potassium peroxodisulfate, sugars, 2,2,3,3-tetrafluoropropanol, thormium dicarboxylic molten ortho-nitrophenol reacts violently with potassium hydroxide. When potassium hydroxide and tetrachloroethane are heated, a spontaneously flammable gas, chloroacetylene, is formed. When phosphorus is boiled in a solution of potassium hydroxide, phosphine gas is evolved which is spontaneously flammable. 1,2-Dichloroethylene and Potassium hydroxide reaction produces chloroacetylene which is spontaneously flammable in air. Potassium Perchlorate and a little Potassium hydroxide and water will ignite. When wet, attacks metals such as aluminum, tin, lead, and zinc, producing flammable hydrogen gas. When heated to decomposition it emits toxic fumes of K2O. Potentially explosive reaction with bromomethane + crown ethers, chlorine dioxide, nitrobenzene, nitromethane, nitrogen trichloride, peroxidized tetrahydrofuran, 2,4,6-trinitrotoluene. Reaction with ammonium hexachloroplatinate(II) + heat forms heat sensitive explosive product. Potassium hydroxide will cause explosive decomposition of maleic anhydride. Detonation will occur when potassium hydroxide is mixed with n-methyl-nitroso urea and methylene chloride. Nitrogen trichloride explodes on contact with potassium hydroxide. WHEN HEATED, TRICHLOROETHYLENE & POTASSIUM HYDROXIDE FORMS EXPLOSIVE MIXTURE OF DICHLOROACETYLENE. NITROGEN TRICHLORIDE EXPLODES ON CONTACT WITH CONCENTRATED POTASSIUM HYDROXIDE.

### Chemical stability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td><strong>Stability</strong></td>
<td>Stable under recommended storage conditions.</td>
</tr>
<tr>
<td><strong>Possibility of Hazardous Reactions</strong></td>
<td>Hazardous polymerization does not occur</td>
</tr>
<tr>
<td><strong>Conditions to avoid</strong></td>
<td>Exposure to moisture. Exposure to moist air. Incompatible materials.</td>
</tr>
<tr>
<td><strong>Incompatible Materials</strong></td>
<td>Oxidizing agents</td>
</tr>
</tbody>
</table>

### Product code

**Product code:** P1325

**Product name:** POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
Acids
Metals
Powdered metals
Organic materials
Water
Alcohols
Halogens
halogenated hydrocarbons
Acid anhydrides
Acid chlorides
Nitro compounds

Hazardous decomposition products: No information available.

Other Information

Corrosivity: Extremely corrosive in presence of aluminum, brass, and zinc.
Slightly corrosive in presence of copper, of stainless steel(304).
Non-corrosive in presence of stainless steel(316).

Special Remarks on Corrosivity: Severe corrosive effect on brass and bronze.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Eyes. Skin. Ingestion. Inhalation.

Acute Toxicity

Component Information

Potassium Hydroxide
CAS-No. 1310-58-3

<table>
<thead>
<tr>
<th>LD50/oral/rat</th>
<th>284 mg/kg Oral LD50 Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50/oral/mouse</td>
<td>No information available</td>
</tr>
<tr>
<td>LD50/dermal/rabbit</td>
<td>No information available</td>
</tr>
<tr>
<td>LD50/dermal/rat</td>
<td>No information available</td>
</tr>
<tr>
<td>LC50/inhalation/rat</td>
<td>No information available</td>
</tr>
<tr>
<td>LC50/inhalation/mouse</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 214 mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit VALUE-Acute Dermal = No information available

LD50/dermal/rat VALUE -Acute Dermal = No information available

Product code: P1325 Product name: POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Severe skin irritation. Causes skin burns.

Eye Contact: Severe eye irritation. Causes eye burns. May cause permanent injury.

Inhalation
Irritating to respiratory system. Inhalation of mist or vapor can cause severe irritation and burns of the respiratory tract and mucous membranes, coughing, difficulty breathing. Irritation may lead to chemical pneumonitis, and pulmonary edema.

Ingestion
Toxic if swallowed. May cause severe and permanent damage to the digestive tract. Causes severe irritation and burns of the gastrointestinal (digestive) tract with abdominal pain, vomiting, bloody diarrhea, cardiovascular collapse, and possible death. May cause perforation of the digestive tract.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity
Prolonged or repeated skin contact with dilute solutions of potassium hydroxide can cause dermatitis. Prolonged or repeated eye contact with dilute solutions can cause conjunctivitis. Prolonged or repeated Inhalation can produce chronic productive cough, and shortness of breath.

Sensitization: No information available.

Mutagenic Effects: For Potassium Hydroxide:
Cytogenic analysis - Hamster ovary 12mmol/L (Registry of Toxic Effects of Chemical Substances)

Carcinogenic effects: Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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</thead>
<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Product code: P1325

Product name: POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Target Organs: Skin. Respiratory system. Eyes.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Ecotoxicity effects: No data available.

*Potassium Hydroxide - 1310-58-3*
Freshwater Fish Species Data: 80 mg/L LC50 Gambusia affinis 96 h static 1

Persistence and degradability: No information available
Bioaccumulative potential: No information available.
Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods
Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
UN-No: UN1813
Proper Shipping Name: Potassium hydroxide, solid
Hazard Class: 8
Subsidiary Class: No information available
Packing group: II
Emergency Response Guide Number: 154
Marine Pollutant: No data available
DOT RQ (lbs): 1000 lbs./454 kg
Special Provisions: IB8, IP2, IP4, T3, TP33
Symbol(s): [DOT]: (R4) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 1000 pounds (454 Kilograms).
Description: UN1813, Potassium hydroxide, solid, 8, II

Product code: P1325
Product name: POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
TDG (Canada)
- **UN-No:** UN1813
- **Proper Shipping Name:** Potassium hydroxide, solid
- **Hazard Class:** 8
- **Subsidiary Risk:** No information available
- **Packing Group:** II
- **Marine Pollutant**
- **Description:** UN1813, Potassium hydroxide, solid, 8, II

ADR
- **UN-No:** UN1813
- **Proper Shipping Name:** Potassium hydroxide, solid
- **Hazard Class:** 8
- **Packing Group:** II
- **Subsidiary Risk:** No information available
- **Description:** UN1813, Potassium hydroxide, solid, 8, II

IMO / IMDG
- **UN-No:** UN1813
- **Proper Shipping Name:** Potassium hydroxide, solid
- **Hazard Class:** 8
- **Subsidiary Risk:** No information available
- **Packing Group:** II
- **Marine Pollutant**
- **EMS:** F-A
- **Description:** UN1813, Potassium hydroxide, solid, 8, II

RID
- **UN-No:** UN1813
- **Proper Shipping Name:** Potassium hydroxide, solid
- **Hazard Class:** 8
- **Subsidiary Risk:** No information available
- **Packing Group:** II
- **Description:** UN1813, Potassium hydroxide, solid, 8, II

ICAO
- **UN-No:** UN1813
- **Proper Shipping Name:** Potassium hydroxide, solid
- **Hazard Class:** 8
- **Subsidiary Risk:** No information available
- **Packing Group:** II
- **Description:** UN1813, Potassium hydroxide, solid, 8, II

IATA
- **UN-No:** UN1813
- **Proper Shipping Name:** Potassium hydroxide, solid
- **Hazard Class:** 8
- **Subsidiary Risk:** No information available
- **Packing Group:** II
- **ERG Code:** 8L
- **Special Provisions**
- **Description:** UN1813, Potassium hydroxide, solid, 8, II

### 15. REGULATORY INFORMATION

**International Inventories**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia</th>
<th>EINECS-No.</th>
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</thead>
</table>

**Product code:** P1325  
**Product name:** POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
U.S. Regulations

Potassium Hydroxide

Massachusetts RTK: Present
   New Jersey RTK Hazardous Substance List: sn 1571
   New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
   Pennsylvania RTK - Environmental Hazard List: Present
   Minnesota - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances:
   1000 lb RQ
   100 lb RQ
Louisiana Reportable Quantity List for Pollutants: 1000lbfinal RQ
   454kgfinal RQ
   California Directors List of Hazardous Substances: Present
   FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1631
FDA - 21 CFR - Total Food Additives 163.110, 163.111, 163.112, 172.841, 175.210, 176.180, 176.210, 177.1600, 177.2800,
   - List Sourced from EAFUS 184.1631, 73.85


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
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<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<td>Not Listed</td>
<td>Not Listed</td>
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CERCLA/SARA

<table>
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<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>1000 lb final RQ 454 kg final RQ</td>
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<td>None</td>
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U.S. TSCA

<table>
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<tr>
<th>Components</th>
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<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<td>1310-58-3</td>
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Canada

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification Information:

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<th>Component</th>
<th>WHIMIS 2015 Hazard Classification</th>
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<td>Potassium Hydroxide</td>
<td>Corrosive to Metals - Category 1: H290 May be corrosive to metals. (2.5% in aqueous solution; potentially corrosive to metals; the supplier should be contacted for more information); Acute toxicity - Oral - Category 3: H301 Toxic if swallowed.; Acute</td>
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</tbody>
</table>

Product code: P1325          Product name: POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
Canada Hazardous Products Regulation

This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

Components

| WHMIS Ingredient Disclosure List | Potassium Hydroxide | 1 % |

Inventory

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<th>Components</th>
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<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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</tr>
</tbody>
</table>

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
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<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>Not listed</td>
</tr>
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<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Skin corrosion/irritation - Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (C &gt;= 5 %)019-002-00-8; Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (2 % &lt;= C &lt;5 %); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation. (0.5 % &lt;= C &lt;2 %); Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation. (0.5 % &lt;= C &lt;2 %)019-002-00-8</td>
</tr>
</tbody>
</table>

EU - CLP (1272/2008)

R-phrase(s)

R22 - Harmful if swallowed.
R35 - Causes severe burns.

S-phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 1/2 - Keep locked up and out of the reach of children.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Product code: P1325
Product name: POTASSIUM HYDROXIDE, FLAKES, TECHNICAL
Limits:

<table>
<thead>
<tr>
<th>Potassium Hydroxide</th>
<th>1310-58-3</th>
<th>Xn; R22</th>
<th>5%&lt;=C</th>
<th>C; R35</th>
<th>S1/2 S26 S36/37/39 S45</th>
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<tr>
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<td>C; R35</td>
<td>2%&lt;=C&lt;5%</td>
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<td>0.5%&lt;=C&lt;2%</td>
<td>Xi; R36/38</td>
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</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
C - Corrosive.
Xn - Harmful.

16. OTHER INFORMATION

Preparation Date: 3/13/2015
Revision Date: 10/4/2018
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet