

SAFETY DATA SHEET

M31866 - ANSI - EN



CAUSTIC POTASH LIQUID (ALL GRADES)

SDS No.: M31866
Rev. Num. 52

SDS Revision Date: 22-Aug-2016

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | |
|--|---|
| Company Identification: | Occidental Chemical Corporation 5005 LBJ Freeway P.O. Box 809050 Dallas, TX 75380-9050 1-800-752-5151 |
| Manufacturing Address: | Occidental Chemical Corporation 266 Highway 3142 Taft, LA 70057-2608 |
| 24 Hour Emergency Telephone Number: | 1-800-733-3665 or 1-972-404-3228 (U.S.) CHEMTREC (U.S.): 1-800-424-9300 International CHEMTREC (outside U.S.): +1 703-527-3887 |
| To Request an SDS: | MSDS@oxy.com or 1-972-404-3245 |
| Customer Service: | 1-800-752-5151 or 1-972-404-3700 |
| Product Identifier: | CAUSTIC POTASH LIQUID (ALL GRADES) |
| Trade Name: | Caustic Potash Membrane Dilute Solution 45%, 48%, 50%; ; ; Caustic Potash Membrane Food Grade - 50% |
| Synonyms: | KOH, liquid potash, Potassium Hydroxide |
| Product Use: | Manufacture of substances, Formulation, Glass Production, Cleaner, Process cleaner, Petroleum Industry, Fertilizer, Chemical Intermediate, Coatings and paints, fillers, putties, thinners, Washing and cleaning products, Electrical batteries |

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and accumulators, Extraction agents, pH adjustment, Neutralization agent, Precipitants, Flocculants, Food processing

Uses Advised Against: None identified

SECTION 2. HAZARDS IDENTIFICATION

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

EMERGENCY OVERVIEW:

Color: Colorless
Physical State: Liquid
Appearance: Clear
Odor: Odorless

Signal Word: **DANGER**

MAJOR HEALTH HAZARDS: CORROSIVE. CAUSES SERIOUS EYE DAMAGE. CAUSES SEVERE SKIN BURNS. HARMFUL IF SWALLOWED.

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. Wear protective gloves, protective clothing, eye, and face protection. Wash thoroughly after handling. Do not breathe vapor or mist. Do not ingest. Do not eat, drink or smoke when using this product. Keep container tightly closed. 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.

GHS CLASSIFICATION:

| | |
|------------------------------------|--|
| GHS: PHYSICAL HAZARDS: | Corrosive to Metals Mixing with water may cause splattering and release of heat |
| GHS: CONTACT HAZARD - SKIN: | Category 1B - Causes severe skin burns and eye damage |

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| | |
|---|--|
| GHS: CONTACT HAZARD - EYE: | Category 1 - Causes serious eye damage |
| GHS: ACUTE TOXICITY - ORAL: | Category 4 - Harmful if swallowed |
| HAZARDOUS TO AQUATIC ENVIRONMENT - ACUTE HAZARD: | Category 3 - Harmful to aquatic life |

UNKNOWN ACUTE TOXICITY: A percentage of this product consists of ingredient(s) of unknown acute toxicity.

Unknown Acute Dermal Toxicity:

There is no acute dermal toxicity data available for this material. 100% of this product consists of ingredient(s) of unknown acute dermal toxicity.

Unknown Acute Inhalation Toxicity:

There is no acute inhalation toxicity data available for this material. 100% of this product consists of ingredient(s) of unknown acute inhalation toxicity.

GHS SYMBOL: Corrosive, Exclamation mark



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
- Harmful if swallowed

GHS - Precautionary Statement(s) - Prevention

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

GHS - Precautionary Statement(s) - Response

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- 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

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- Immediately call a POISON CENTER or doctor/physician
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- 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

Hazards Not Otherwise Classified (HNOC)

Mixing with water may cause splattering and release of heat

See Section 11: TOXICOLOGICAL INFORMATION

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: KOH, liquid potash, Potassium Hydroxide

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

SECTION 4. FIRST AID MEASURES

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. For definite or probable ingestion, do not administer oral fluids. If vomiting occurs spontaneously, keep airway clear. Monitor airway. Volume resuscitation (IV fluids) and circulatory support (CPR) may be required. Never give anything by mouth to an unconscious or convulsive person. GET

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MEDICAL ATTENTION IMMEDIATELY.

Most Important Symptoms/Effects (Acute and Delayed):

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.

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: Medical observation and assessment is recommended for all ingestions, all eye exposures, and symptomatic inhalation and dermal exposures. For symptomatic ingestion, do not administer oral fluids and consider investigation by endoscopy, X-ray, or CT scan. Esophageal perforation, airway compromise, hypotension, and shock are possible. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. There is no antidote. Treatment is supportive care. Follow normal parameters for airway, breathing, and circulation. Surgical intervention may be required.

SECTION 5. FIRE-FIGHTING MEASURES

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.

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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
- Mixing with water may cause splattering and release of heat

SECTION 6. ACCIDENTAL RELEASE MEASURES

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.

SECTION 7. HANDLING AND STORAGE

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 splattering.

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).

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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
- Mixing with water may cause splattering and release of heat

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

| Component | ACGIH TWA | ACGIH STEL | ACGIH Ceiling | OSHA TWA (Vacated) | OSHA STEL (Vacated) | OSHA Ceiling (Vacated) |
|---------------------|-----------|------------|---------------------|--------------------|---------------------|------------------------|
| Potassium hydroxide | ----- | ----- | 2 mg/m ³ | ----- | ----- | 2 mg/m ³ |

- *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.

| Component | OXY REL 8 hr TWA | OXY REL STEL | OXY REL Ceiling |
|--|------------------|--------------|---------------------|
| Potassium hydroxide 1310-58-3 (10-51) | | | 2 mg/m ³ |

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.

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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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Physical State: | Liquid |
| Appearance: | Clear |
| Color: | Colorless |
| Odor: | Odorless |
| Odor Threshold [ppm]: | Not Available. |
| Molecular Weight: | 56.11 |
| Molecular Formula: | KOH |
| Boiling Point/Range: | 216 to 289 °F (102 to 143 °C) |
| Freezing Point/Range: | -85 to 39 °F (-65 to 4 °C). |
| Vapor Pressure: | 4 mmHg @ 77°F (25°C) 50% solution 20 mmHg @ 77°F (25°C) 20% solution |
| Vapor Density (air=1): | No data available |
| Relative Density/Specific Gravity (water=1): | 1.09 - 1.52 @ 15.6 °C |
| Density: | 9.09 - 12.67 lbs/gal (1.09 - 1.52 kg/L) @ 15.6 °C |
| Water Solubility: | 100% |
| pH: | 12 - 14 |
| VOC Content (%): | 0% |
| Volatility: | No data available |
| Evaporation Rate (ether=1): | No data available |
| Partition Coefficient (n-octanol/water): | Not applicable |
| Flash point: | Not flammable |
| Flammability (solid, gas): | Not flammable |
| Lower Flammability Level (air): | Not applicable |
| Upper Flammability Level (air): | Not applicable |
| Auto-ignition Temperature: | Not determined |
| Viscosity: | No data available |

SECTION 10. STABILITY AND REACTIVITY

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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.

SECTION 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

PRODUCT TOXICITY DATA: CAUSTIC POTASH-LIQUID (ALL GRADES)

| | | |
|--------------------------------------|--|--|
| LD50 Oral: 365 mg/kg (Rat) | LD50 Dermal: No data available | LC50 Inhalation: No data available |
|--------------------------------------|--|--|

COMPONENT TOXICITY DATA:

Note: The component toxicity data is populated by the LOLI database and may differ from the product toxicity data given.

| Component | LD50 Oral: | LD50 Dermal: | LC50 Inhalation: |
|----------------------------------|-----------------|--------------|------------------|
| Potassium hydroxide 1310-58-3 | 284 mg/kg (Rat) | ----- | ----- |

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:** 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

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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.

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.

GHS HEALTH HAZARDS:

Listed below.

GHS: ACUTE TOXICITY - ORAL: Category 4 - Harmful if swallowed.

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

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

Skin Absorbent / Dermal Route? No.

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SECTION 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.

Invertebrate Toxicity:

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

FATE AND TRANSPORT:

BIODEGRADATION: This material is inorganic and not subject to biodegradation.

PERSISTENCE: This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material is believed to exist in the disassociated state in the environment.

BIOCONCENTRATION: Considering its high water solubility, potassium hydroxide is not expected to bioconcentrate in organisms.

BIOACCUMULATIVE POTENTIAL: Potassium hydroxide is a strong alkaline substance that dissociates completely in water to K⁺ and OH⁻. Considering its high water solubility, potassium hydroxide is not expected to bioconcentrate in organisms. Log Pow is not applicable for an inorganic compound that dissociates.

ADDITIONAL ECOLOGICAL INFORMATION: This material has exhibited slight toxicity to terrestrial organisms. The risk that potassium hydroxide poses for the environment is essentially restricted to a pH increase of the aquatic compartment, which is dependent on the hardness of the waters.

SECTION 13. DISPOSAL CONSIDERATIONS

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.

SECTION 14. TRANSPORT INFORMATION

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LAND TRANSPORT**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)

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

MARITIME TRANSPORT (IMO / IMDG) :

UN NUMBER: UN1814
PROPER SHIPPING NAME: Potassium hydroxide, solution
HAZARD CLASS / DIVISION: 8
Packing Group: II
LABELING REQUIREMENTS: 8

Labeling Requirements:**SECTION 15. REGULATORY INFORMATION****U.S. REGULATIONS****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)

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Not regulated

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

Acute Health Hazard

EPCRA SECTION 313 (40 CFR 372.65):

Not regulated

DEPARTMENT OF HOMELAND SECURITY (DHS)- Chemical Facility Anti-Terrorism Standards (6 CFR 27):

No components in this material are regulated under DHS

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. Only the Food Grade product is guaranteed to be 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.

| Component | DSL | NDSL |
|----------------------------------|--------|------------|
| Potassium hydroxide 1310-58-3 | Listed | Not Listed |

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 | Listed-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 |
|----------------------------------|---|---|---|--|---|
| Potassium hydroxide 1310-58-3 | | Listed | Not Listed | Present | Listed |

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

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| Component | Canadian Chemical Inventory: | NDSL: | WHMIS - Classifications of Substances: |
|---------------------|------------------------------|-------|--|
| Potassium hydroxide | Listed | | D1B,E E |

SECTION 16. OTHER INFORMATION

Prepared by: OxyChem Corporate HESS - Product Stewardship**Rev. Date:** 22-Aug-2016**Health Rating:** 3 **Flammability:** 0 **Reactivity Rating:** 1**Reason for Revision:**

- Product Name and/or Trade Name(s) has been revised: SEE SECTION 1
- Removed NFPA/HMIS ratings from format: SEE SECTION 16

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 Occidental Chemical Corporation 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

End of Safety Data Sheet
