

SAFETY DATA SHEET

1. Identification

Other means of identificationCaustic potash, potassium lye, potassium hydrateSynonymsCaustic potash, potassium lye, potassium hydrateRecommended usePotassium source, pH neutralizer, manufacturer of inorganic potassium chemicals, manufacturer of deicer, Manufacture of liquid fertilizers, Herbicides, Pesticides and other agriculture chemicalsRecommended restrictionsNone known.Manufacturer/Importer/Supplier/Ustributor informationCompany nameCompany nameOlin Chlor Alkali ProductsAddress490 Stuart Road, NE Cleveland, TN 37312Company namePioneer Americas, LLC (d/b/a Olin Chlor Alkali Products)Address490 Stuart Road, NE Cleveland, TN 37312Company nameOlin Canada ULC (d/b/a Olin Chlor Alkali Products)Address2020 Robert-Bourassa Blvd., Suite 2190 Montreal, Quebec H3A 2A5General InformationETelephone(888) 658-6SDS (737) WebsiteWebsiteOinchoralkali.com CORS SControl Group Emergency phone numbeiEmergency phone numbeiCHEMTREC US: 1.800-424-9300Canada: 1.800-567-7455	Product identifier	POTASSIUM HYDROXIDE, 30-55%		
Recommended usePotassium source, pH neutralizer, manufacturer of inorganic potassium chemicals, manufacturer of deicer, Manufacture of liquid fertilizers, Herbicides, Pesticides and other agriculture chemicalsRecommended restrictionsNone known.Manufacturer/Importer/Supplier/Distributor informationOlin Chlor Alkali ProductsAddress490 Stuart Road, NE Cleveland, TN 37312Company namePioneer Americas, LLC (d/b/a Olin Chlor Alkali Products)Address490 Stuart Road, NE Cleveland, TN 37312Company namePioneer Americas, LLC (d/b/a Olin Chlor Alkali Products)Address490 Stuart Road, NE Cleveland, TN 37312Company nameOlin Canada ULC (d/b/a Olin Chlor Alkali Products)Address2020 Robert-Bourassa Blvd., Suite 2190 Montreal, Quebec H3A 2A5General InformationKesseTelephone(888) 658-6SDS (737) Olin Chlor alkali.com Contact personORC SDS Control Group Emergency phone numberORC SDS Control Group CHEMTREC	Other means of identification			
Recommended restrictions None known. Manufacturer/Importer/Supplier/Distributor information Olin Chlor Alkali Products Address 490 Stuart Road, NE Cleveland, TN 37312 Company name Pioneer Americas, LLC (d/b/a Olin Chlor Alkali Products) Address 490 Stuart Road, NE Cleveland, TN 37312 Company name Pioneer Americas, LLC (d/b/a Olin Chlor Alkali Products) Address 490 Stuart Road, NE Cleveland, TN 37312 Company name Olin Canada ULC (d/b/a Olin Chlor Alkali Products) Address 2020 Robert-Bourassa Blvd., Suite 2190 Montreal, Quebec H3A 2A5 Montreal, Quebec H3A 2A5 General Information (888) 658-6SDS (737) Website olinchloralkali.com Contact person ORC SDS Control Group Emergency phone number CHEMTREC	Synonyms	Caustic potash, potassium lye, potassium hydrate		
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Websiteolinchloralkali.comContact personORC SDS Control GroupEmergency phone numberCHEMTREC	General Information			
Contact person ORC SDS Control Group Emergency phone number CHEMTREC	Telephone	(888) 658-6SDS (737)		
Emergency phone number CHEMTREC	Website	olinchloralkali.com		
	Contact person	ORC SDS Control Group		
US: 1-800-424-9300 Canada: 1-800-567-7455	Emergency phone number	CHEMTREC		
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2. Hazard(s) identification

Physical hazards	Corrosive to metals	Category 1
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 1B
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
OSHA defined hazards	Not classified.	

Label elements



Signal word Hazard statement

Harmful if swallowed. May be corrosive to metals. Causes severe skin burns and eye damage. Harmful to aquatic life.

Precautionary statement Prevention

Keep only in original container. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment.

Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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/doctor/. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.	
Storage	Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number %		
Potassium hydroxide	1310-58-3 30-55		
Composition comments	Components not listed are either non-hazardous or are below reportable limits.		
4. First-aid measures			
nhalation	Move to fresh air. Get medical attention if symptoms occur.		
Skin contact	Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for a least 15-20 minutes. Get medical attention immediately! Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediate		
ngestion	Call a physician or poison control center immediately. Rinse mouth. If vomiting occurs, keep h low so that stomach content doesn't get into the lungs.		
Most important symptoms/effects, acute and delayed	Corrosive effects. May cause temporary blindness and severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.		
ndication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of bre give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed		
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immedia (show the label where possible). Wash contaminated clothing before reuse.		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use extinguishing agent suita for type of surrounding fire.		
Unsuitable extinguishing Do not use a solid water stream as it may scatter and spread fire. Do not use halo extinguishing agents.			
Specific hazards arising from the chemical	The product itself does not burn. May decompose upon heating to produce corrosive and/or to fumes. Contact with metal may release flammable hydrogen gas.		
Special protective equipment and precautions for firefighters			
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you ca so without risk. Use water spray to cool unopened containers.		
Specific methods	Use water spray to cool unopened containers.		

6. Accidental release measures

Personal precautions,	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not
protective equipment and	touch damaged containers or spilled material unless wearing appropriate protective clothing. Local
emergency procedures	authorities should be advised if significant spillages cannot be contained. Heavier than water. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
	Never return spills in original containers for re-use. Retain and dispose of contaminated wash water. For waste disposal, see Section 13 of the SDS.	
Environmental precautions	Do not discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Use caution when combining with water; DO NOT add water to caustic; ALWAYS add caustic to water while stirring to minimize heat generation. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe mist or vapor. Use only with adequate ventilation. Wear appropriate personal protective equipment. Transfer and storage systems should be compatible and corrosion resistant. Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store in corrosive resistant container with a resistant inner liner. Store away from incompatible materials (See Section 10). Store at temperatures not exceeding 40°C/104°F. Compatible storage materials may include, but not be limited to, the following: nickel and nickel alloys, steel, plastics, plastic or rubber-lined steel, FRP, or Derakane vinyl ester resin. Do not allow material to freeze.	

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to	o Chemical Hazards		
Components	Туре	Value	
Potassium hydroxide (CAS 1310-58-3)	TWA	2 mg/m3	
ological limit values	No biological exposure limits noted t	for the ingredient(s).	
ppropriate engineering ntrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.		
dividual protection measures,	such as personal protective equipr	nent	
Eye/face protection	Wear goggles (or safety glasses with side shields) and a face shield. Wear a full-face respirator, if needed. PPE requirements should match type and amount used as determined by the end users PPE hazard assessment.		
Skin protection			
Hand protection	Wear appropriate chemical resistant	t gloves.	
Skin protection			
Other	Wear appropriate chemical resistant clothing.		
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended expo limits (where applicable) or to an acceptable level (in countries where exposure limits have been established), an approved respirator must be worn.		
Thermal hazards	Thermal hazards Wear appropriate thermal protective clothing, when necessary.		
General hygieneAlways observe good personal hygiene measures, such as washing after handling the mconsiderationsand before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		moking. Routinely wash work clothing and protective	

9. Physical and chemical properties

Appearance Physical state Form

Liquid.

Liquid.

Color	Clear to slightly hazy.		
Odor	Odorless.		
Odor threshold	Not available.		
рН	14 (0.5% Solution)		
Melting point/freezing point	-27.4 °F (-33 °C) (45% Solution)		
Initial boiling point and boiling range	271.4 °F (133 °C) (45% Solution)		
Flash point	Not available.		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not available.		
Upper/lower flammability or exp	losive limits		
Flammability limit - lower (%)	Not available.		
Flammability limit - upper (%)	Not available.		
Explosive limit - lower (%)	Not available.		
Explosive limit - upper (%)	Not available.		
Vapor pressure	6.4 mm Hg at 77°F (25°C) (45% Solution)		
Vapor density	Not available.		
Relative density	For product range of concentrations: 1.283 g/cm3 to 1.572 g/cm3		
Solubility(ies)			
Solubility (water)	Not available.		
Partition coefficient (n-octanol/water)	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
Viscosity	Not available.		
Other information	Density varies in an approximately linear relationship with strength.		
Molecular formula	КОН		
Molecular weight	56.1 g/mol		
10 Stability and reactivity			

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Corrosive to aluminum, tin, zinc, copper and most alloys in which they are present including brass and bronze. Corrosive to steels at elevated temperatures above 40°C (104°F).
Incompatible materials	Oxidizing agents. Acids. Phosphorus. Aluminum. Zinc. Tin. Initiates or catalyzes violent polymerization of acetaldehyde, acrolein or acrylonitrile.
Hazardous decomposition products	Contact with metals (aluminum, zinc, tin) and sodium tetrahydroborate liberates hydrogen gas.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Vapors and mist may irritate throat and respiratory system and cause coughing.
Skin contact	Causes skin burns.
Eye contact	Causes eye burns.
Ingestion	Harmful if swallowed. Causes digestive tract burns.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Permanent eye damage including blindness could result.

Acute toxicity	Harmful if swallowed.		
Components	Species	Test Results	
Potassium hydroxide (CAS 1310-58-3)			
Acute			
Oral			
LD50	Rat	273 mg/kg	
Skin corrosion/irritation	Causes severe skin burns and eye	damage.	
Serious eye damage/eye irritation	Causes severe eye burns. Causes serious eye damage.		
Respiratory or skin sensitizatio	n		
Respiratory sensitization	This product is not expected to cau	se respiratory sensitization.	
Skin sensitization	This product is not expected to cau	se skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed.			
NTP Report on Carcinogen	S		
Not listed.	ed Substances (29 CFR 1910.1001-1	050)	
Not regulated.	eu Substances (29 CFK 1910.1001-1	050)	
Reproductive toxicity	This product is not expected to cau	se reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not classified, however droplets of or vomiting and may cause a seriou	the product may be aspirated into the lungs through ingestior is chemical pneumonia.	
Chronic effects	Prolonged inhalation may be harmf	ul.	
Further information	Prolonged inhalation may be harmful.		

12. Ecological information

Ecotoxicity	Harmful to aquatic life.			
Components		Species	Test Results	
Potassium hydroxide (CAS 1	310-58-3)			
Aquatic				
Fish	LC50	Western mosquitofish (Gambusia affinis)	80 mg/l, 96 Hours	
Persistence and degradability	degradability No data is available on the degradability of this product.			
Bioaccumulative potential	No data availa	able for this product.		
Mobility in soil	Not available.			
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
13. Disposal consideratio	ons			
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.			
Hazardous waste code	If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261. D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]			
Waste from residues / unused productsDispose of in accordance with local regulations. Empty contain product residues. This material and its container must be dispo Disposal instructions).				

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT		
UN number	UN1814	
UN proper shipping name	Potassium hydroxide, solution	
Transport hazard class(es)	· · · · · · · · · · · · · · · · · · ·	
Class	8	
Subsidiary risk	-	
-	8	
Label(s)		
Packing group		
	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.	
Special provisions	B2, IB2, T7, TP2	
Packaging exceptions	154	
Packaging non bulk	202	
Packaging bulk	242	
ΙΑΤΑ		
UN number	UN1814	
UN proper shipping name	Potassium hydroxide solution	
Transport hazard class(es)		
Class	8	
Subsidiary risk	-	
Packing group		
Environmental hazards	No.	
ERG Code	8L	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety	
	instructions, SDS and emergency procedures before handling.	
IMDG		
UN number	UN1814	
UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION	
Transport hazard class(es)		
Class	8	
Subsidiary risk	-	
Packing group	11	
Environmental hazards		
Marine pollutant	No.	
EmS	F-A, S-B	
-	Read safety instructions, SDS and emergency procedures before handling. Read safety	
opecial precadions for user	instructions, SDS and emergency procedures before handling.	
Transport in bulk according to		
Annex II of MARPOL 73/78 and		
the IBC Code		
15. Regulatory information		
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication	
	Standard, 29 CFR 1910.1200.	
	CERCIA Herendeus Substances, Retessive Hudravide, CAS # 4340 59.3, RO., 4000 lbs	
	CERCLA Hazardous Substance: Potassium Hydroxide, CAS # 1310-58-3, RQ = 1000 lbs.	
TSCA Section 12(b) Export N	otification (40 CFR 707, Subpt. D)	
Not regulated.		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Not regulated.		
CERCLA Hazardous Substance List (40 CFR 302.4)		
Determine hydroxide (CAS 1310 FS 3)		

Potassium hydroxide (CAS 1310-58-3) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard	catego	ories
i lazai u	Laieyu	1169

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Potassium hydroxide (CAS 1310-58-3)

US. New Jersey Worker and Community Right-to-Know Act

Potassium hydroxide (CAS 1310-58-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Potassium hydroxide (CAS 1310-58-3)

US. Rhode Island RTK

Potassium hydroxide (CAS 1310-58-3)

US. California Proposition 65

This product is not listed, but it may contain elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 Safe Drinking Water and Toxic Enforcement Act. For additional information, contact Olin Technical Services (800-299-6546).

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	20-December-2013
Revision date	08-March-2016
Version #	03

HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0
NFPA ratings	
List of abbreviations	LD50: Lethal Dose, 50%. LC50: Lethal Concentration, 50%. EC50: Effective Concentration, 50%. TWA: Time weighted average.
References	EPA: AQUIRE database HSDB® - Hazardous Substances Data Bank US. IARC Monographs on Occupational Exposures to Chemical Agents IARC Monographs. Overall Evaluation of Carcinogenicity ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
Disclaimer	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.