

#### Manufacturer of Specialty Chemicals

# Safety Data Sheet

### Section 1. Identification

Product Identifier	Potassium Hydroxide	Version: 6
	(Caustic Potash)	Effective Date: 25 January 2021
<b>Other Means Of</b>	Caustic potash	-
Identification		
Initial Supplier	Chemfax Products Ltd.	
Identifier	11444 – 42 Street SE	
	Calgary, AB T2C 5C4	
	Tel: 403-287-2055	
<b>Recommended Use</b>	Industrial Applications. No restrictions.	
and Restrictions		
On Use		
<b>Product Family</b>	Inorganic base	
<b>Emergency Phone</b> 1	-855-887-2055 Monday - Friday 8:00am - 4	4:30pm MST

Section 2. Hazard Identification		
Hazard Classification		
Physical Hazards	Corrosive To Metals – Category 1	
Health Hazards	Skin Corrosion/Irritation – Category 1 Eye Damage/Irritation – Category 1 Specific Target Organ Toxicity (single exposure) – Category 3	
Environmental Hazards	Hazardous to the Aquatic Environment – Short Term (Acute) Hazard – Category 3	
Signal Word	Danger	
Hazard Statement	May be corrosive to metals. Causes severe skin burns and serious eye damage. May cause respiratory irritation; or may cause drowsiness or dizziness. Harmful to aquatic life.	
Precautionary Prevention Statement	Keep only in original packaging. Do not breathe in dusts. Wash hands thoroughly after handling. Wear protective gloves, clothing, eye and face protection. Avoid breathing dust, fume, gas, mist, vapours and spray. Use only outdoors in a well-ventilated area. Avoid release to the environment.	



D	Absorb agillage to prevent metanial damage		
Precautionary Response	Absorb spillage to prevent material damage.		
Statement	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
	IF ON SKIN (or hair): Take off immediately all contaminated		
	clothing. Rinse skin with water or shower if on clothing. Wash		
	contaminated clothing before reuse.		
	IF INHALED: Remove person to fresh air and keep comfortable for		
	breathing. Immediately call a doctor.		
	Specific Treatment: do not induce vomiting unless directed by		
	medical personnel.		
	IF IN EYES: Rinse cautiously with water for several minutes.		
	Remove contact lenses, if present and easy to do. Continue rinsing.		
	Immediately call a doctor.		
Precautionary Storage	Store in a corrosion resistant container with a resistant inner liner.		
Statement	Store locked up. Store in a well-ventilated place. Keep container		
	tightly closed.		
Precautionary Disposal	Dispose of contents / container in accordance with local regulations.		
Statement			
Other Hazards	None		

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS NO. and Other	% by weight
		Unique Identifiers	
Potassium hydroxide	Caustic potash	1310-58-3	60-100

Section 4. First-Aid Measures		
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.	
Skin Contact	Flush area with water. If irritation persists seek medical attention.	
	Launder clothing before reuse.	
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek	
	immediate medical attention.	
Ingestion	Remove victim to fresh air. If there is difficulty breathing, seek	
	immediate medical attention.	
Most Important	Causes burns by all exposure routes. Product is a corrosive material.	
Symptoms and Effects	Use of gastric lavage or emesis is contraindicated. Possible perforation	
Both Acute and Delayed	of stomach or esophagus should be investigated: Ingestion causes	
	severe swelling, severe damage to the delicate tissue and danger of	
	perforation.	



Immediate Medical Attention and Special Treatment Treat symptomatically.

Section 5. Fire-Fighting Measures			
Suitable and Unsuitable	Use extinguishing media suitable for surrounding fire.		
Extinguishing Media	NOTE: Do not direct a solid stream of water or foam into burning molten material, this may cause spattering and spread the fire. Contact with water or moisture may generate enough heat to ignite combustibles. Reacts with metals to from combustible hydrogen gas.		
Hazardous	Oxides of potassium.		
<b>Combustion Products</b>			
Specific Hazards Arising	Thermal decomposition can lead to release of irritating gases and		
From the Product	vapors. Contact with metals may evolve flammable hydrogen gas. Water reactive.		
Special Protective	Fire-fighters should wear self contained breathing apparatus and full		
<b>Equipment and</b>	protective clothing. Use water spray to cool containers and structures		
<b>Precautions For Fire-</b>	exposed to fire.		
Fighters	-		

Section 6. Accidental Releas	e Measures	
Personal Precautions,	Gloves, coveralls, chemical resistant footwear, safety glasses.	
Protective Equipment and	Isolate area. Evacuate personnel to safe areas. Ensure adequate	
<b>Emergency Procedures</b>	ventilation. Avoid dust formation. Do not get in eyes, on skin, or on	
	clothing.	
Environmental	Do not allow spilt material to enter sewers and surface watercourses.	
Precautions		
Methods and Materials	Isolate area. Sweep, scoop or vacuum up spilt material. Take care not	
For Containment and	to generate dust. Place material in a suitable container for disposal.	
Clean-Up	Wash area with water to remove residues.	

Section 7. Handling and Storage		
<b>Precautions For Safe</b>	Handle with care – Corrosive material. Avoid contact with eyes, skin	
Handling	and clothing. Empty containers may contain hazardous residues.	
<b>Conditions For Safe</b>	Store in a cool dry place. Keep containers closed when not in use.	
Storage	Protect containers from physical damage. Store away from	
	incompatible materials.	



Section 8. Exposure Controls / Personal Protection **Control Parameters** TWA: 8 Hr STEL: 15 min Ceiling IDLH \* Potassium hydroxide  $2 \text{ mg/m}^3$ ACGIH \* Immediately Dangerous to Life and Health **Exposure Controls** Local exhaust ventilation **Appropriate Engineering** Ensure eye wash station and safety shower are available. Controls **Individual Protective** Measures **Eye / Face Protection** Safety glasses. **Skin Protection** Chemical resistant coveralls, gloves **Respiratory Protection** Air purifying respirator fitted with HEPA filters should be worn if exposure limits are exceeded.

Section 9. Physical and Chemical Properties		
Appearance	White solid	
Odour	Odourless	
Odour Threshold	No data.	
pH	13.5 (5% solution)	
Flash Point	Not applicable	
<b>Boiling Point and Boiling Range</b>	Decomposes	
Melting Point and Freezing Point	400 °C	
Evaporation Rate	Not applicable	
Flammability (solid, gas)	Not flammable	
Upper and Lower Flammability or	No data	
Explosive Limits		
Vapour Pressure	Not applicable	
Vapour Density	Not applicable	
<b>Relative Density</b>	2.044	
Solubility	Soluble	
Partition co-efficient, n-Octanol/	No data	
Water		
Auto-ignition Temperature	Not applicable	
<b>Decomposition Temperature</b>	No data	
Viscosity	No data	



Section 10. Stability and Re	eactivity		
Reactivity	Reacts with metals and acids.		
Chemical Stability	Moisture sensitive. Air sensitive.		
Possibility of Hazardous	Will not occur		
Reactions			
Conditions to Avoid	Excessive heat and moisture.		
Incompatible Materials	Contact with water. Acids. Flammable liquids. Organic halides. Contact with reactive metals may produce flammable hydrogen gas. Nitromethane and similar nitro compounds. Carbon monoxide gas may be produced on contact with reducing sugars.		
Hazardous Decomposition	Not expected to decompose under normal conditions of use.		
Products			

Section 11. Toxicological Info	rmation		
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide	214 mg/kg (Rat)		
Likely Routes of Exposure			
Skin:	Can cause sever	e chemical burns w	ith blistering.
Eyes:	Can cause redness, tearing, pain. May induce ulceration of the corneal epithelium, severe eye damage causing blindness.		
Inhalation:	Causes severe respiratory irritation. High concentrations may cause lung damage.		
Ingestion:	May cause burns of the mouth, throat and stomach. May cause pain, nausea, vomiting and diarrhoea. Severe scarring of tissue and death may result. Estimated lethal dose is 5 g.		
Acute Toxicity Estimates (ATE)	214 mg/kg (oral	, rat)	
STOT (Specific Target	Respiratory syst	tem	
Organ Toxicity) – Single			
Exposure			
Aspiration Toxicity	Not classified		
STOT (Specific Target	None known		
<b>Organ Toxicity</b> ) – Repeated			
Exposure			
Skin Corrosion / Irritation	corrosive		
Serious Eye Damage /	corrosive		
Irritation			
Respiratory or Skin Sensitization	Not classified		



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Carcinogenicity	Not listed.
<b>Reproductive Toxicity</b>	
- Sexual Function and	Not classified
Fertility	
- Development of	Not classified
Offspring	
- Effects on or via	Not classified
Lactation	
Germ Cell Mutagenicity	Not classified
Interactive Effects	Not classified
Other Information	None known

Section 12. Ecological Information		
Ecotoxicity	LC50: 80.0 mg/L (Gambusia affinis) 96 hr static	
Persistence and	Will not persist	
Degradability		
<b>Bioacumulative Potential</b>	No data	
Biodegradability	No data	
Mobility in Soil	Not available	
Other Adverse Effects	None known	

Section 13. Disposal Considerations	
<b>Disposal Considerations</b>	Dispose of contents / containers in accordance with local regulations.

Section 14. Transport Information	
UN Number	1813
UN Proper Shipping Name	Potassium hydroxide
Transport Hazard	8
Class(es)	
Packaging Group	П
<b>Environmental Hazards</b>	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	154



Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances
	List (DSL) or Non-Domestic Substances List (NDSL) or exempt
TSCA	All components of this product are either on the Toxic Substances
	Control Act (TSCA) Inventory List or exempt
<b>Additional Information</b>	None

### Section 16. Other Information

NFPA Rating	Health-3/ Flammability-0/Reactivity-1/Special Hazard-Not applicable
HMIS Rating	Health-3/Flammability-0/Reactivity-1/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	12 October, 2012
Date of Latest Revision: 25 January 2021	

#### Disclaimer

Notice to reader

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