

1. IDENTIFICATION

IDENTIFIER (AS LABELED): Potassium Hydroxide
RECOMMENDED USE/RESTRICTION: pH modification
MANUFACTURER'S NAME: Belle Chemical
ADDRESS: PO Box 21874
Billings, MT 59104
EMERGENCY PHONE: CHEMTREC (800) 262-8200
BUSINESS PHONE: 406-672-5899

Health	3
Fire	0
Reactivity	1

2. HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION: Skin Corrosion (1A)
Eye Damage (1)
Acute Toxicity, Dermal (4)
SIGNAL WORD: Danger
HAZARD STATEMENT(S): Causes severe skin burns and eye damage. Harmful in contact with skin. Harmful if swallowed



SYMBOL(S):
PRECAUTIONARY STATEMENT(S): Do not breathe mist, spray or vapors. Wash exposed skin thoroughly after handling. Wear protective clothing when handling the product. If swallowed: rinse mouth and seek medical attention or call POISON CONTROL. If in eyes or on skin: Rinse area with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention after rinsing eyes, or if skin irritation persists.
HAZARDS NOT CLASSIFIED: Not Applicable
UNKNOWN ACUTE TOXICITY: Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENT(S)

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR					
			ACGIH		OSHA			NIOSH
			TLV TWA	STEL	PEL	STEL	IDLH	REL
Potassium Hydroxide	1310-58-3	90	NE	2mg/m ³	NE	NE	NE	NE

4. FIRST-AID MEASURES

INHALATION: Remove person to fresh air and keep comfortable for breathing. Contact POISON CONTROL or seek medical attention.
EYES: Hold eyelids open and flush with a steady stream of water for 20 minutes. Seek medical attention after rinsing.
SKIN: Wash affected area with soap and water. Contact POISON CONTROL or seek medical attention.
INGESTION: Rinse mouth. **DO NOT INDUCE VOMITING** unless directed by a medical professional. Call POISON CONTROL.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MATERIALS: Not considered to be a fire hazard. Use extinguishing media applicable to the surrounding fire.
SPECIAL EQUIPMENT: Use water spray to cool containers. Wear full protective clothing and self-contained breathing apparatus (SCBA).
SPECIFIC HAZARDS: When heated to decomposition, this product may emit carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Contain material and absorb with inert material. In some cases dilution with significant water may be required. Disposal according to Federal, State and local regulations. Do not allow concentrated material to discharge into controlled waterways. Wear PPE according to Section 8.

7. HANDLING and STORAGE

SAFE HANDLING: Wash hands after handling material. Do not eat, drink, or smoke while handling material. Do not get in eyes. Mixture is toxic when consumed by animals.
SAFE STORAGE: Store in cool, dry, well-ventilated area away from incompatible materials.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

ENGINEERING CONTROLS: Use with adequate ventilation
RESPIRATORY: NIOSH-approved respirator
HAND: Hand protection made of compatible material
OTHER PROTECTIVE MEASURES: Eye wash fluid should be accessible in case of eye irritation due to exposure
EYE: Face shield and goggles
BODY: Appropriate for exposure or work environment

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White solid

PH: ≥14 (in solution)

FLASH POINT: Not Established

UEL / LEL: Not Established

RELATIVE DENSITY: ~2.04

AUTO-IGNITION: Not Established

ODOR: Not Established

MELT/FREEZE POINT: ~680°F

EVAPORATION RATE: Not Established

VAPOR PRESSURE: Not Established

SOLUBILITY(IES): Water, Alcohol

DECOMPOSITION TEMP: Not Established

ODOR THRESHOLD: Not Established

BOILING POINT/RANGE: 2,530°F

FLAMMABILITY: Not Established

VAPOR DENSITY: Not Established

PARTITION COEFFICIENT: Not Established

VISCOSITY: Not Established

10. STABILITY AND REACTIVITY

REACTIVITY: Reacts with some metals to release flammable gasses/vapors

CHEMICAL STABILITY: Stable under normal conditions

CONDITIONS TO AVOID: Direct sunlight or temperature extremes

INCOMPATIBLE MATERIALS: Strong acids and metals. Dilution with water will evolve heat.

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Toxic to animals and marine life.

NTP/IARC SUSPECTED CARCINOGEN: Not suspected.

SYMPTOMS OF EXPOSURE: Harmful if swallowed. May cause acute burns to skin or eyes. May cause damage to organs through prolonged or repeated exposure.

TOXICITY ESTIMATE(S):	DERMAL (RAT):	5675	mg/kg
	ORAL (RAT):	≥273	mg/kg

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Toxic to aquatic life.

LC50 (Gambusia affinis):	80	mg/l
--------------------------	----	------

PERSISTENCE AND DEGRADABILITY: Biodegradable

BIOACCUMULATIVE POTENTIAL: Product is biodegradable and non-accumulative

MOBILITY IN SOIL: Not tested as a whole

OTHER ADVERSE EFFECTS: May cause adverse pH modification in aqueous ecological systems

13. DISPOSAL CONSIDERATIONS

SAFE HANDLING AND DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations.

14. TRANSPORTATION INFORMATION

UN NUMBER/SHIPPING NAME: 1813/Potassium Hydroxide, Solid

TRANSPORT HAZARD CLASS(ES): 8 – Corrosive Material

DOT: Class 8 – Corrosive Material

PACKING GROUP: II

ENVIRONMENTAL HAZARDS: No

TRANSPORT IN BULK: Stow separated from acids

SPECIAL PRECAUTIONS: None

15. REGULATORY INFORMATION

SARA 302: No requirements.

SARA 311/312: Acute

SARA 313: Potassium Hydroxide (313c)

TSCA STATUS: All constituents.

CALIFORNIA PROPOSITION 65: Not found.

CERCLA (RQ): Potassium Hydroxide (1000-lbs.)

STATE REGULATIONS: Potassium Hydroxide: MA, NJ, PA

EUROPEAN INVENTORY: Constituents of this product are listed on EINECS

16. OTHER INFORMATION

The information and recommendations herein are taken from data contained in independent industry recognized references including NIOSH, OSHA, ANSI, and NFPA. No guarantee, express or implied, and no liability is assumed by Belle Chemical in conjunction with the use of this information.

DATE OF PREPARATION: 04/01/2017