



Section 1: Identification

Common Name/Trade Name	POTASSIUM HYDROXIDE	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	Caustic Potash, Potassium Hydrate	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Corrosive to metals (Category 1), Skin corrosion/irritation (Category 1), Serious eye damage/eye irritation (Category 1), Specific target organ toxicity - single exposure (Category 3), Acute hazards to the aquatic environment (Category 3)	
Signal Word	Danger	
Hazard Statement(s)	H290 H314 H335 H402	May be corrosive to metals Causes severe skin burns and eye damage May cause respiratory irritation Harmful to aquatic life
Pictogram(s)	 	
Precautionary Statement(s)	P233 Keep container tightly closed. P234 Keep only in original container. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P315 Get immediate medical advice/attention. P363 Wash contaminated clothing before reuse. P403 Store in a well ventilated place. P405 Store locked up. P406 Store in a corrosive resistant container with a resistant inner liner. P501 Dispose of contents/container to an approved waste disposal plant.	
Hazards Not Otherwise Classified	None	
Ingredient(s) with Unknown Toxicity	Acute toxicity, inhalation, dust or mist 100% Chronic hazards to the aquatic environment 85%	

Section 3: Composition/Information on Ingredients

Chemical Name	N/A
Common Name	Potassium Hydroxide
CAS Number	1310-58-3
Additional Ingredient Information	Synonyms: Caustic Potash, Potassium Hydrate
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
If Inhaled	Move to fresh air. Call a physician or poison control center immediately. Apply artificial respiration if victim is not breathing. If breathing is difficult, give oxygen.
In Case of Skin Contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
In Case of Eye Contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately. In case of irritation from airborne exposure, move to fresh air. Get medical attention immediately.
If Swallowed	Call a physician or poison control center immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most Important Symptoms and Effects	Causes severe skin and eye burns. Causes digestive tract burns. Treatment: Treat symptomatically. Symptoms may be delayed.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Water spray, foam, dry powder or carbon dioxide.
Special Hazards Arising From the Substance/Mixture	General fire hazards: In case of fire and/or explosion do not breathe fumes. Fire may produce irritating, corrosive and/or toxic gases.
Special PPE and/or Precautions for Firefighters	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and enclosed spaces, SCBA.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Keep unauthorized personnel away. Ventilate closed spaces before entering them. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Methods and Materials Used for Containment	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Cleanup Procedures	Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Neutralize spill area and washings with dilute acetic acid.

Section 7: Handling and Storage

Precautions for Safe Handling	Avoid inhalation of dust and vapors. Do not get in eyes, on skin, on clothing. Do not taste or swallow. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Conditions for Safe Storage	Do not store in metal containers. Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Chemical Identity: Potassium Hydroxide Type: Ceiling, Exposure Limit values: 2 mg/m3 Source: US ACGIH Threshold Limit Values (2011). Type: REL 2mg/m3 Source: US NIOSH: Pocket Guide to Chemical Hazards (2010). Type: Ceiling Exposure Limit values: 2 mg/m3 Source: US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Appropriate Engineering Controls	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. An eye wash and safety shower must be available in the immediate work area. Hygiene measures: Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.
PPE - Eye/Face Protection	Wear safety glasses with side shields (or goggles) and a face shield.
PPE - Skin Protection	Hand protection: Chemical resistant gloves. Other: Wear appropriate clothing to prevent reasonably probable skin contact.
PPE - Body Protection	Hand protection: Chemical resistant gloves. Other: Wear appropriate clothing to prevent reasonably probable skin contact.
PPE - Respiratory Protection	In case of inadequate ventilation use suitable respirator. High-efficiency particulate respirator with full facepiece.

Section 9: Physical and Chemical Properties

Appearance	Physical state: Solid Form: Solid Color: White
Upper/Lower Flammability or Explosive Limits	No data available
Odor	Odorless
Vapor Pressure	0.1 kPa (714 °C)
Odor Threshold	No data available
Vapor Density	No data available
pH	13.5 0.1 N Aqueous solution
Relative Density	2.04 (20°C)
Melting Point/Freezing Point	360°C
Solubility	Water solubility: Soluble
Initial Boiling Point and Boiling Range	1,320 °C
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
Partition Coefficient	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	Reacts violently with strong acids.
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur. The substance is hygroscopic and will absorb water by contact with the moisture in the air.
Conditions to Avoid	Avoid contact with oxidizing agents. Reacts violently with strong acids. Heat. Moisture.
Incompatible Materials	Moisture. Oxidizing agents. Acids, Maleic Anhydride Halogens. Nitromethane. Contact with metals may evolve flammable hydrogen gas.
Hazardous Decomposition Products	Oxides of potassium

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	Oral Product: ATEmix (Rat): 303.3 mg/kg
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	No data available
Acute Toxicity - Eye	No data available
Skin Corrosion/Irritation	Causes severe skin burns.
Serious Eye Damage/Irritation	Causes serious eye damage.
Respiratory or Skin Sensitization	Not a skin nor a respiratory sensitizer.
Germ Cell Mutagenicity	No mutagenic components identified.
Carcinogenicity IARC	No carcinogenic components identified.
Carcinogenicity ACGIH	No data available
Carcinogenicity NTP	No carcinogenic components identified.
Carcinogenicity OSHA	No carcinogenic components identified.
Reproductive Toxicity	No components toxic to reproduction
Specific Target Organ Toxicity - Single Exposure	Respiratory tract irritation.
Specific Target Organ Toxicity - Repeated Exposure	None known.
Aspiration Hazard	Not classified.

Section 12: Ecological Information

Toxicity	POTASSIUM HYDROXIDE LC 50 (Western mosquitofish (<i>Gambusia affinis</i>), 96 h): 80 mg/l Mortality
Persistence and Degradability	Expected to be readily biodegradable.
Bio-accumulative Potential	No data available
Mobility in Soil	The product is water soluble and may spread in water systems.
Other Adverse Effects	Harmful in aquatic organisms. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

Section 13: Disposal Considerations

Waste Treatment Methods Product	Discharge, treatment, or disposal may be subject to national, state, or local laws.
Waste Treatment Methods Packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	1813
UN Proper Shipping Name	Potassium hydroxide, solid
Transport Hazard Class(es)	8
Packaging Group	II
Environmental Hazards	Marine Pollutant: No

Section 15: Regulatory Information

US federal regulations: TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities. CERCLA Hazardous Substance List (40 CFR 302.4): POTASSIUM HYDROXIDE Reportable quantity: 1000lbs. Superfund amendments and reauthorization act of 1986 (SARA): Hazard categories: Acute (Immediate), Chronic (Delayed). SARA 302 Extremely hazardous substance: None present or none present in regulated quantities. SARA 304 Emergency release notification RQ 1000lbs. SARA 311/312 Hazardous chemical: Threshold Planning Quantity: 500 lbs. SARA 313 (TRI reporting): None present or none present in regulated quantities. Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) Reportable quantity: 1000lbs. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities. US state regulations: US. California Proposition 65: No ingredient regulated by CA Prop 65 present. US. New Jersey Worker and Community Right-to-Know Act: Listed. US. Massachusetts RTK-Substances List: Listed. US. Pennsylvania RTK - Substance List: Listed. US. Rhode Island RTK Listed. Inventory Status: Australia AICS: On or in compliance with the inventory. Canada DSL Inventory List: On or in compliance with the inventory. EINECS, ELINCS or NLP: On or in compliance with the inventory. Japan (ENCS) List: On or in compliance with the inventory. China Inv. Existing Chemical Substances: Not in compliance with the inventory. Korea Existing chemicals Inv. (KECI): On or in compliance with the inventory. Canada NDSL Inventory: Not in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory. US TSCA Inventory: On or in compliance with the inventory. New Zealand Inventory of Chemicals: On or in compliance with the inventory. Japan ISHL Listing: Not in compliance with the inventory. Japan Pharmacopoeia Listing: Not in compliance with the inventory.

Section 16: Other Information

Additional Information	NFPA Hazard ID Flammability 3, Health 0, Reactivity 1, Special Hazard: CO Hazard rating: 0 - Minimal; 1-Slight, 2-Moderate, 3-Serious, 4-Severe, COR: Corrosive
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