Potassium Hydroxide, 15%



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Potassium Hydroxide, 15% Science education applications Caustic Potash Solution, Potassium Hydrate Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER

Section 2



Toxic if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity - Oral Category 3, Hazardous to the aquatic environment - Acute Category 3

Section 3		omposition / Information on Ingredients			
<u>Chemical Name</u> Water Potassium Hydroxide	e CAS # % 85 15				
Section 4		First Aid Measures			
Emergency and First	Aid Procedures				
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.				
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy				
	to do. Continue rinsing.				
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with				
	water/shower. Wash contaminated clothing before reuse.				
Ingestion:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.				
	mouth. Do NOT	auce vomiting.			
Section 5		Firefighting Procedures			
Extinguishing Media:		Use dry chemical, CO2 or appropriate foam.			
Fire Fighting Methods and Protection:		Firefighters should wear full protective equipment and NIOSH approved self-contained			
		breathing apparatus.			
Fire and/or Explosion	Hazards:	Fire or excessive heat may produce hazardous decomposition products.			
Hazardous Combustion Products:		Potassium Oxide			

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Isolate area. Keep unnecessary personnel away.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not flush spill to drain.

Section 7

Handling and Storage

Handling:

ing: Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Storage: Storage Code:

Store locked up. Keep container tightly closed in a cool, well-ventilated place.

rage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8 Protection Information					
	ACGIH		OSHA PEL		
Chemical Name	<u>(TWA)</u>	(STEL)	<u>(TWA)</u>	(STEL)	
Potassium Hydroxide	N/A	N/A	N/A	N/A	
Control Parameters					
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.				
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.				
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.				
Respirator Type(s):	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.				
Eye Protection:	Wear chemical splash goggles when handling this product. Additionally, wear a face shield when the possibility of splashing of liquid exists. Have an eye wash station available.				
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.				
Gloves:	Neoprene, Nitrile, Nitrile	e - Extra Thick (8 mm)			

Section 9

Physical Data

Formula: KOH	Vapor Pressure: No data available
Molecular Weight: 56.10	Evaporation Rate (BuAc=1): No data available
Appearance: Colorless Liquid	Vapor Density (Air=1): No data available
Odor: None	Specific Gravity: >1
Odor Threshold: No data available	Solubility in Water: Soluble
pH: 14.5	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10

Reactivity: Chemical Stability: Conditions to Avoid:

Reactivity Data

Mildly reactive - See below Stable under normal conditions. Exposure to moisture Reaction with water is exothermic.

Incompatible Materials:

Hazardous Decomposition Products: Hazardous Polymerization: Water-reactive materials, Acids, Halogenated Hydrocarbons, Metals, Maleic Anhydride, Moisture, Water, Peroxides Potassium Oxide Will not occur

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation and ingestion. Diarrhea, Coffee Ground Emesis, Vomiting, Respiratory Irritation No data available	
Acute Toxicity:	CAS Number Oral I D50	

Chemical Name Water Potassium Hydroxide	CAS Numbe	r Oral LD50 Oral LD50 Rat 90000 mg/kg Oral LD50 Rat 273 mg/kg	Dermal LD50	Inhalation LC50	
Carcinogenicity: Chemical Name Potassium Hydroxide	CAS Numbe	r IARC Not listed	NTP Not listed	OSHA Not listed	
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. No information available No information available				
Section 12		Ecological Data			
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected No data Dissolved into water No data No data No data	to be harmful to the ecolog	ју.		
Chemical Name Water	CAS Number	Eco Toxicity No data available			

Water Potassium Hydroxide

Disposal Information

Section 13

Disposal Methods:

Waste Disposal Code(s):

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

96 HR LC50 GAMBUSIA AFFINIS 80 MG/L [STATIC]

Section 14

Transport Information

Ground - DOT Proper Shipping Name: UN1814 Potassium Hydroxide Solution Class 8 P.G. II Air - IATA Proper Shipping Name: UN1814 Potassium Hydroxide Solution Class 8 P.G. II

Section 15

Regulatory Information

TSCA Status:	All com	All components in this product are on the TSCA Inventory.				
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Potassium Hydroxide		No	1000 lb RQ	1000 lb final RQ (454 kg)	No	No
California Prop 65:		No California Proposition 65 ingredients				
Section 16					Additio Informa	

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA IDLH	Toxic Substances Control Act Immediately dangerous to life and health