# Potassium Hydroxide, 15%



## **Section 1**

## **Product Description**

**Product Name:** Potassium Hydroxide, 15% **Recommended Use:** Science education applications

Synonyms: Caustic Potash Solution, Potassium Hydrate
Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

#### Section 2

### **Hazard Identification**

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

## **DANGER**





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**

# **Composition / Information on Ingredients**

Chemical NameCAS #%Water85Potassium Hydroxide15

#### 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.

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

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

## Section 8 Protection Information

 ACGIH
 OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Potassium Hydroxide
 N/A
 N/A
 N/A
 N/A

**Control Parameters** 

Respirator Type(s):

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. 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 - Extra Thick (8 mm)

### **Section 9**

## Physical Data

Formula: KOH

Molecular Weight: 56.10 Appearance: Colorless Liquid

Odor: None

Odor Threshold: No data available

**pH:** 14.5

Melting Point: No data available Boiling Point: No data available Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available

Specific Gravity: >1

Solubility in Water: Soluble Log Pow (calculated): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

### Section 10

## **Reactivity Data**

**Reactivity:** Mildly reactive - See below **Chemical Stability:** Stable under normal conditions.

Conditions to Avoid: Exposure to moisture Reaction with water is exothermic.

**Incompatible Materials:** Water-reactive materials, Acids, Halogenated Hydrocarbons, Metals, Maleic Anhydride,

Moisture, Water, Peroxides

**Hazardous Decomposition Products:** Potassium Oxide **Hazardous Polymerization:** Will not occur

#### Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): Diarrhea, Coffee Ground Emesis, Vomiting, Respiratory Irritation

**Delayed Effects:** No data available

**Acute Toxicity:** 

**Dermal LD50 Chemical Name CAS Number** Oral LD50 **Inhalation LC50** 

Water Oral LD50 Rat 90000 mg/kg

Oral LD50 Rat 273

mg/kg

Carcinogenicity:

Potassium Hydroxide

**Chemical Name CAS Number IARC** NTP **OSHA** 

Potassium Hydroxide Not listed Not listed Not listed

**Chronic Effects:** 

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: No information available No information available **Chronic:** 

#### Section 12 **Ecological Data**

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data

Persistence: Dissolved into water

Bioaccumulation: No data Degradability: No data Other Adverse Effects: No data

**Chemical Name CAS Number Eco Toxicity** Water

No data available

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

#### Section 13 Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

#### Section 14 Transport Information

**Ground - DOT Proper Shipping Name:** Air - IATA Proper Shipping Name:

UN1814 UN1814

Potassium Hydroxide Solution Potassium Hydroxide Solution

Class 8 Class 8 P.G. II P.G. II

#### Regulatory Information Section 15

**TSCA Status:** 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	Additional
	Information

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