## Potassium Hydroxide 2%



#### Section 1

### **Product Description**

**Product Name:** Potassium Hydroxide 2% Science education applications

**Synonyms:** Caustic potash solutions, Potassium Hydroxide 0.33N

**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**





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

#### **GHS Classification:**

Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the aquatic environment - Acute Category 3, Acute Toxicity - Oral Category 4

#### Section 3

## Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 98

 Potassium Hydroxide
 1310-58-3
 2

### **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: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse

mouth. Do NOT induce vomiting.

#### Section 5

## **Firefighting Procedures**

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.

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.

Contain the discharged material. Isolate area. Keep unnecessary personnel away. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container

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. Suitable for any general chemical storage.

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** 

**Eve Protection:** 

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):

**Respiratory Protection:** 

Wear chemical splash googles when handling this product. Have an eve wash station

available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

Lab coat, apron, eye wash, safety shower.

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: Nitrile

### Section 9

## Physical Data

Formula: KOH Vapor Pressure: No data available

Molecular Weight: Mixture 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: 13.5

Log Pow (calculated): No data available

Melting Point: Estimated 0 C

Autoignition Temperature: No data available

Melting Point: Estimated 0 CAutoignition Temperature: No data availableBoiling Point: Estimated 100 C 100 CDecomposition Temperature: No data availableFlash Point: No data availableViscosity: No data available

Flammable Limits in Air: No data available Percent Volatile by Volume: No data available

#### Section 10

## **Reactivity Data**

**Reactivity:** Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: No data available. Exposure to moisture

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:** 

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

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Potassium Hydroxide 1310-58-3 Oral LD50 Rat 273

mg/kg

Carcinogenicity:

**Chemical Name CAS Number IARC** NTP **OSHA** Potassium Hydroxide 1310-58-3 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.

No evidence of negative reproductive effects. Reproductive:

**Target Organ Effects:** 

Acute: No information available Chronic: No information available

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

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife.

Mobility: This material is expected to have very high mobility in soil. It does not absorb to most soil types.

Dissolved into water Persistence:

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

**Chemical Name CAS Number Eco Toxicity** Water 7732-18-5 No data available

96 HR LC50 GAMBUSIA AFFINIS 80 MG/L [STATIC] Potassium Hydroxide 1310-58-3

#### Disposal Information Section 13

**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): If discarded, this product is considered a RCRA corrosive waste, D002.

#### Section 14 Transport Information

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

UN1814; Potassium hydroxide, solution; 8; II; UN1814; Potassium hydroxide, solution; 8; II;

#### **Regulatory Information** Section 15

**TSCA Status:** All components in this product are on the TSCA Inventory.

**Chemical Name** CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ **CAA 112(2)** 

> Number TQ

Potassium Hydroxide 1310-58-3 No 1000 lb 1000 lb final No No

> RQ RQ (454 kg)

California Prop 65: No California Proposition 65 ingredients

Section 16	Additional
	Information

Revised: 08/21/2018 Replaces: 06/15/2018 Printed: 08-25-2018

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	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	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	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health