



POTASSIUM HYDROXIDE, CREATINE SOLUTION

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA
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Section 1 - Product Description

Product Name: Potassium Hydroxide, Creatine Solution

Product Code(s): 88-3643

Size: 500 mL

Chemical Name: N/A

CAS Number: See section 2

Formula: See section 2

Synonyms: Caustic potash solutions

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Composition / Information on Ingredients

Principal Hazardous Components: Creatine (CAS#57-00-1) 60%; Potassium Hydroxide (CAS#1310-58-3) 40%

TLV units: (Potassium Hydroxide) ACGIH-TLV 2 mg/m³ (ceiling)

PEL units: (Potassium Hydroxide) OSHA-PEL (Vacated) 2 mg/m³ (ceiling)

Section 3 - Hazard Identification

Emergency Overview: N/A

Potential Health Effects:

Eyes: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Skin: May cause irritation to skin.

Inhalation: May cause irritation to respiratory tract.

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of ... (Water, unless specified as water-reactive).

Ingestion - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating:

Health: 3

Fire: 0

Reactivity: 1

Extinguisher Media: Use dry chemical, CO₂ or appropriate foam.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: N/A

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Store at controlled room temperature.

Protect containers against physical damage.

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

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes

Mechanical(General): Yes

Special: No

Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 56.10

Boiling Point: Slightly more than 100°C (212°F)

Vapor Density(Air=1): N/A

Percent Volatile by Volume: N/A

Solubility in Water: Soluble

Melting Point: Slightly less than 0°C (32°F)

Vapor Pressure: N/A

Specific Gravity (H₂O=1): Slightly greater than 1

Evaporation Rate (BuAc=1): N/A

Appearance and Odor: Clear, colorless, odorless liquid

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Acids, Halogens, Reducing agents, Metals,

Hazardous Decomposition Products: Hydrogen Gas, CO_x, K₂O - Potassium Oxide,

Section 11 - Toxicity Data

Toxicity Data: (Potassium Hydroxide) orl-rat LD50 214 mg/kg

Effects of Overexposure:

Acute: See section 3

Chronic: Mutation data cited.

Conditions Aggravated by Overexposure: N/A

Target Organs: Respiratory system, Gastrointestinal tract, Skin, Eyes,

Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: N/A

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1814, Potassium Hydroxide Solution, 8, II, Corrosive

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:

Creatine - No

KOH - No

Chemical Category:

Creatine - No

KOH - No

CERCLA Section 103 RQ(lb.): Creatine - No

KOH - Yes 1000

RCRA Section 261.33: Creatine - No

KOH - No

Section 16 - Additional Information

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. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act