

Section 1. Product and Company Identification

Product Name	Potassium Hydroxide Solution (10%)
Product Number	PHC
Intended Use	Laboratory reagent.
Manufacturer	ScyTek Laboratories, Inc.
Address	205 South 600 West Logan, Utah 84321 U.S.A.
Phone Number	800-729-8350
Fax Number	435-755-0015
Website	scytek.com

Section 2. Hazards Identification

HMIS (U.S.A.)	HEALTH	3
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	D
OSHA	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Warning!	<p>EN: Corrosive. DE: Ätzend. FR: Corrosif. IT: Corrosivo. ES: Corrosivo.</p> <p>EN: Harmful if swallowed. DE: Gesundheitsschädlich beim Verschlucken. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. ES: Nocivo por ingestión.</p> <p>EN: Causes severe burns. DE: Verursacht schwere Verätzungen. FR: Provoque de graves brulures. IT: Provoca gravi ustioni. ES: Provoca quemaduras graves.</p>	
Classification	C, R22, R35	

Section 3. Composition and Information on Ingredients

Name	CAS#	EC#	%
Water	7732-18-5	231-791-2	85-95
Potassium Hydroxide	1310-58-3	215-181-3	10

*May contain additional non-hazardous proprietary ingredients.

*May contain additional active ingredients at concentrations <0.1%w/v.

Section 4. First Aid Measures

Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention.
Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.
Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen.
Ingestion: Get immediate medical attention.

Section 5. Fire Fighting Measures

Extinguishing Media	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
Unusual Fire and Explosion Hazards	No unusual fire or explosion hazards expected.
General Information	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

Section 6. Accidental Release Measures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

Section 7. Handling and Storage

Avoid contact with skin and eyes.
 Wash thoroughly after handling.
 Store in well ventilated area.
 Separate from acids and alkalis.
 Keep container tightly closed.
 Avoid breathing vapor.

Section 8. Exposure Controls / Personal Protection

Exposure Limits	Potassium Hydroxide: OSHA Permissible Exposure Limit (PEL): 2ml/m3 Ceiling ACGIH Threshold Limit Value (TLV): 2ml/m3 Ceiling
Personal Protection	Chemical resistant gloves are required. Safety glasses or goggles are required. Avoid breathing vapor.
Engineering Controls	Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

Section 9. Physical and Chemical Properties

Physical State	Liquid.
Color	Colorless.
Odor	Odorless
pH	Basic.
Molecular Weight	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Evaporation Rate	N/A
Viscosity	N/A

Boiling Point	N/A
Freezing Point	N/A
Melting Point	N/A
Solubility	N/A
Solubility in Water	Soluble
Flash Point	N/A
Explosion Limits (%)	N/A

Section 10. Stability and Reactivity

Chemical Stability	Stable under normal temperatures and pressures.
Conditions to Avoid	Fire, incompatible materials.
Incompatible Materials	Strong acids, Metals, Organic material, Copper. Reacts with aluminum, tin, zinc, Magnesium, Azide, Acetone.
Hazardous Decomposition Materials	Potassium oxides are released under fire conditions.
Hazardous Polymerization	Not reported.

Section 11. Toxicological Information

Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Acute Toxicity	Eye Contact: May cause irritation and redness. Skin Contact: May irritate skin. May cause serious burns to skin with prolonged contact. Ingestion: May irritate gastrointestinal system. Toxic if swallowed. Inhalation: May irritate respiratory tract. Mist may damage tissue of the upper respiratory tract.
Chronic toxicity	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.
Toxicity to Animals	Not Available.
Special Remarks	None

Section 12. Ecological Information

Ecotoxicity	No relevant studies identified.
Mobility	No relevant studies identified.
Bio-accumulation	No relevant studies identified.
Persistence/Degradability	No relevant studies identified.
Additional Remarks	None.


Section 13. Disposal Considerations

Observe all federal, state and local environmental regulations.

Section 14. Transport Information

DOT CRF 172.101 Data	DOT controlled material (United States).
UN Shipping Name	POTASSIUM HYDROXIDE, SOLUTION
UN Number	1814
UN Class	8
UN Packing Group	II
Special Provisions	
Canada TDG	

Section 15. Regulatory Information

Federal and State Regulations	N/A
Other Regulations	Potassium Hydroxide is listed on the "Right to Know" lists for the following states: MA, PA, NJ.
EU Hazard Symbol and Indication of Danger	
R phrases	<p>R22 EN: Harmful if swallowed. DE: Gesundheitsschädlich beim Verschlucken. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. ES: Nocivo por ingestión.</p> <p>R35 EN: Causes severe burns. DE: Verursacht schwere Verätzungen. FR: Provoque de graves brûlures. IT: Provoca gravi ustioni. ES: Provoca quemaduras graves.</p> <p>R36/38 EN: Irritating to eyes and skin. DE: Reizt die Augen und die Haut. FR: Irritant pour les yeux et la peau. IT: Irritante per gli occhi e la pelle. ES: Irrita los ojos y la piel.</p>
S phrases	<p>S1/2 EN: Keep locked up and out of the reach of children. DE: Unter Verschluss und für Kinder unzugänglich aufbewahren. FR: Conserver sous clef et hors de portee des enfants. IT: Conservare sotto chiave e fuori della portata dei bambini. ES: Consérvese bajo llave y manténgase fuera del alcance de los niños.</p> <p>S26 EN: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. DE: Bei Berührung mit den Augen sofort gründlich mit Wasser abspülen und Arzt konsultieren. FR: En cas de contact avec les yeux, laver immédiatement et abondamment avec de l'eau et consulter un spécialiste. IT: In caso di contatto con gli occhi, lavare immediatamente e abbondantemente con acqua e consultare un medico. ES: En caso de contacto con los ojos, lávense inmediata y abundantemente con agua y acúdase a un médico.</p>

Material Safety Data Sheet
PHC-MSDS

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	<p>S36/37/39 EN: Wear suitable protective clothing, gloves and eye/face protection. DE: Bei der Arbeit geeignete Schutzkleidung, Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen. FR: Porter un vetement de protection appropriée, des gants et un appareil de protection des yeux/du visage. IT: Usare indumenti protettivi e guanti adatti e proteggersi gli occhi/la faccia. ES: Usense indumentaria y guantes adecuados y protección para los ojos/la cara.</p> <p>S45 EN: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). DE: Bei Unfall oder Unwohlsein sofort Arzt zuziehen (wenn möglich, dieses Etikett vorzeigen). FR: En cas d'accident ou de malaise, consulter immédiatement un médecin (si possible lui montrer l'étiquette). IT: In caso di incidente o di malessere consultare immediatamente il medico (se possibile, mostrargli l'etichetta). ES: En caso de accidente o malestar, acúdase inmediatamente al médico (si es posible, muéstresele la etiqueta).</p>
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Section 16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.