

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Potassium Hydroxide (40%)

CAS number See section 2 for CAS

Synonyms No information available

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals

#### 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC  
12501 Pauls Valley Road  
Austin, Texas 78737  
U.S.A.

Telephone 512-668-9918

Fax 512-886-4008

#### 1.4 Emergency telephone

<b>Emergency Phone #</b>	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity - Oral	Category 4
Skin Corrosion/irritation	Category 1A
Eye damage/irritation	Category 1
Specific Target Organ Toxicity - Single exposure	Category 1
Aspiration hazard	Category 1
Corrosive to Metals	Category 1
Hazardous to the Aquatic Environment (Acute)	Category 3

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

### Hazard statements

May be corrosive to metals.  
Harmful if swallowed  
May be fatal if swallowed and enters airways  
Causes severe skin burns and eye damage  
Causes serious eye damage  
Causes damage to organs  
Harmful to aquatic life.

### Precautionary statements

Keep only in original container  
Do not breathe fumes, mist, vapors, or spray  
Wash arms, hands and face thoroughly after handling  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.  
Wear protective gloves and eye protection.  
IF SWALLOWED: Immediately call a POISON CENTER or physician  
IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
IF exposed: Call a POISON CENTER or physician  
Immediately call a POISON CENTER or physician  
Specific treatment (wash areas of contact with water immediately)  
Rinse mouth.  
Do NOT induce vomiting.  
Wash contaminated clothing before reuse  
Absorb spillage to prevent material damage  
Store locked up  
Store in corrosive resistant container with a resistant inner liner  
Dispose of contents in accordance with local, state, federal and international regulations.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Data not available

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	-	7732-18-5	60%
Potassium Hydroxide	-	1310-58-3	40%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

<b>If inhaled</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing
<b>In case of skin contact</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. May cause irritation, redness, and pain.
<b>In case of eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Irritating, possibly corrosive to eye tissue. Symptoms include tearing, redness, pain, and impaired vision.
<b>If swallowed</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

### 4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed. May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. Causes serious eye damage. Causes damage to organs. Danger! Corrosive. Causes severe burns. May be fatal if swallowed. Wash areas of contact with plenty of water for at least 15 minutes. If ingested, dilute with a large quantity of water. Do not induce vomiting. Call a physician. EYE CONTACT: Irritant, possibly corrosive to eye tissue. Symptoms include tearing, redness, pain, and impaired vision. SKIN CONTACT: May cause irritation, redness, and pain. CHRONIC EFFECTS / CARCINOGENICITY: Prolonged or repeated exposure may cause dermatitis.

### 4.3 Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately).

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Use extinguishing media appropriate for surrounding fire.
<b>Unsuitable extinguishing media</b>	No information available

### 5.2 Specific hazards arising from the substance or mixture

Not combustible. Dissolves in water, releasing heat. If moist, reacts with many common metals to form hydrogen gas.

### 5.3 Special protective equipment and precautions for firefighters

Wear special protective clothing and positive pressure self-contained breathing apparatus.

### 5.4 Further information

**Flash Point** No information available

**Autoignition Temperature** No information available

#### Explosion limits

**Upper** No information available

**Lower** No information available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

#### NFPA

Health	Flammability	Instability	Physical hazards
-	-	-	-

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves and eye protection.

### 6.2 Environmental precautions

No information available

### 6.3 Methods and materials for containment and cleaning up

Keep water away from release. Prompt cleanup and removal are necessary. Control runoff and isolate discharged material for proper disposal.

### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Precautions on safe handling

Store in corrosive resistant container with a resistant inner liner. Protect from freezing and physical damage. Do not mix with acids.

#### Hygiene measures

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Protect from freezing and physical damage. Do not mix with acids.

### Incompatibilities

Do not mix with acids.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

ACGIH TLV-Ceiling Limit: 2 mg/m<sup>3</sup>

### 8.2 Exposure controls

#### Appropriate engineering controls

No specific controls are needed. Normal room ventilation is adequate.

#### Personal protective equipment

##### Eye/face protection

Wear protective gloves and eye protection. Safety glasses or goggles.

##### Skin protection

Wear protective gloves and eye protection. Chemical resistant gloves.

##### Body Protection

No information available

##### Respiratory protection

Normal room ventilation is adequate.

##### Control of environmental exposure

No information available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Odorless
Odor Threshold	Data not available
pH	> 13
Melting Point/Range	-13 °C
Boiling Point/Range	Approximately 100°C - Approximately 100°C

Evaporation Rate	Data not available
Flammability (solid)	Data not available
Flammability or explosive limit	Data not available
Vapor Pressure	Data not available
Vapor Density	Data not available
Density	1.26
Solubility	Miscible
Partition coefficient; n-octanol/water	Data not available
Autoignition Temp	Data not available
Decomposition Temp	Data not available
Viscosity	Data not available
Molecular Formula	Data not available
Molecular Weight	Data not available
VOC Content(%)	Data not available
Oxidizing properties	Data not available

## 9.2 Other safety information

No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Data not available

### 10.2 Chemical stability

Data not available

### 10.3 Possibility of hazardous reactions

Data not available

### 10.4 Conditions to avoid

Keep only in original container. Strong acids, chlorinated hydrocarbons, acetone, metals such as aluminum, tin and zinc.

### 10.5 Incompatible materials

No information available

### 10.6 Hazardous decomposition products

Will not occur.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

#### Acute toxicity

Oral Exposure: Harmful if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. Dispose of contents in accordance with local, state, federal and international regulations.

Dermal exposure: Not applicable

Inhalation exposure: Not applicable

Other information: LD50, Oral, Rat: (Potassium Hydroxide) 273 mg/kg, details of toxic effects not reported other than lethal dose value. Irritation data: skin, rabbit: 50 mg/24H severe; eye, rabbit: 1 mg/24H moderate. Investigated as a mutagen (Potassium Hydroxide).

### **Skin corrosion/irritation**

Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

### **Serious eye damage/eye irritation**

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician

### **Respiratory or skin sensitization**

Not applicable

### **Germ cell mutagenicity**

Not applicable

### **Carcinogenicity**

Not applicable

### **Specific target organ toxicity - single exposure**

Causes damage to organs. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

### **Specific target organ toxicity - repeated exposure**

Not applicable

**Reproductive toxicity**

Not applicable

**Chronic effects**

No information available

**11.2 Additional Information**

May be fatal if swallowed and enters airways. IF SWALLOWED: immediately call a POISON CENTER or physician. Do NOT induce vomiting. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**SECTION 12: Ecological information****12.1 Toxicity**

Harmful to aquatic life. Avoid release to the environment. Dispose of contents with local, state, federal and international regulations.

**12.2 Persistence and degradability**

Data not available

**12.3 Bio accumulative potential**

Data not available

**12.4 Mobility in soil**

Data not available

**12.5 Results of PBT and vPvB assessment**

Data not available

**12.6 Endocrine disrupting properties**

Data not available

**12.7 Other adverse effects**

Data not available

**SECTION 13: Disposal considerations****13.1 Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**SECTION 14: Transport information****DOT (US)**

UN-no.

UN1814

Proper Shipping Name

Potassium Hydroxide, solution



Hazard Class 8  
Packing Group II

**IMDG**

UN-no. UN1814  
Proper Shipping Name Potassium Hydroxide, solution  
Hazard Class 8  
Packing Group II

**IATA**

UN-no. UN1814  
Proper Shipping Name Potassium Hydroxide, solution  
Hazard Class 8  
Packing Group II

**SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not listed

**SARA 304 Emergency release notification**

Not regulated

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous**

Listed - 1000 lb final RQ

**SARA 313 (TRI reporting)**

Not listed

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act**

Not regulated

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed

**US. New Jersey Worker and Community Right-to-Know Act**

Listed

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed

**California Proposition 65**

Not listed

**SECTION 16: Other information**

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Revision 0

**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.