

## SAFETY DATA SHEET

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

### 1.1 Product identifiers

- Product name Potassium Hydroxide 0.2M Solution
- CAS number 1310-58-3
- Synonyms Caustic potash

### 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**

Emergency Phone #	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)

Corrosive to Metals	Category 1
Skin Corrosion	Category 1B
Serious Eye Damage	Category 1

### 2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Danger
Hazard statements	May be corrosive to metals. May cause severe skin burns and eye damage.
Precautionary statements	Prevention: Keep only in original container. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.
	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse.
	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
	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/ doctor.
	Spills: Absorb spillage to prevent material damage.
	Storage: Store locked up. Store in corrosive-resistant container with a resistant inner liner.
	Disposal: Dispose of contents/ container to an approved waste disposal plant.

### **2.3 Hazards not otherwise classified (HNOC) or not covered by GHS** None identified.

### **SECTION 3: Composition/information on ingredients**

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	Aqua; H2O	7732-18-5	98-99%
Potassium Hydroxide	Caustic potash	1310-58-3	1-2%

### **SECTION 4: First aid measures**

### 4.1 Description of first-aid measures

General advice	
lf inhaled	Remove to fresh air. Call a physician.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
In case of eye contact	Rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
If swallowed	Make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

- **4.2 Most important symptoms and effects, both acute and delayed** Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus shouldbe investigated. Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation.
- **4.3 Indication of any immediate medical attention and special treatment needed** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	For this substance/mixture, no limitations of extinguishing agents are given.

# **5.2** Specific hazards arising from the substance or mixture Not combustible. Ambient fire may liberate hazardous vapours.

Hazardous Combustion Products: Hydrogen. Potassium oxides.

### **5.3** Special protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

### 5.4 Further information

Flash Poin	int No information available.				
Autoignitic	on Temperat	Ature No information available.			
Upper No data available.   Lower No data available.   Sensitivity to Mec+anical Impact No information available.   Sensitivity to Static Discharge No information available.   NFPA No			-		
	Health	Flammability	Instability	Physical hazards	
	3	0	0	N/A	

### **SECTION 6: Accidental release measures**

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

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### 6.2 Environmental precautions

Should not be released into the environment.

**6.3 Methods and materials for containment and cleaning up** Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements. See Section 12 for additional Ecological Information.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

#### Precautions on safe handling

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

#### **Storage conditions**

Corrosives area. Do not store in metal containers. Keep containers tightly closed in a dry, cool, and well-ventilated place.

#### Incompatibilities

Acids. Halogens. Acid anhydrides. Halocarbons. Alcohols. Acid chlorides, Metals.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value
Potassium hydroxide	Ceiling	2 mg/m3

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value
Potassium hydroxide	(Vacated) Ceiling	2 mg/m3

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Туре	Value
Potassium hydroxide	Ceiling	2 mg/m3

#### **Biological occupational exposure limits**

No information available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Multi-purpose/ABEK. conforming to EN14387.

Do not let product enter drains.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Evaporation Rate Flammability (solid) Flammability or explosive limit Upper	Liquid Colorless Odorless No information available No information available No information available No information available No information available Not applicable No data available
Lower Vapor Pressure Vapor Density Density Solubility Partition coefficient; n-octanol/water Autoignition Temp Decomposition Temp Viscosity Molecular Formula Molecular Weight VOC Content(%) Oxidizing properties	No information available No information available No information available Soluble in water No data available No information available No information available KOH 56.11 g/mol No information available No information available

### 9.2 Other safety information

No information available.

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

None known, based on information available.

### 10.2 Chemical stability

Stable under normal conditions.

### **10.3 Possibility of hazardous reactions** None under normal processing.

### **10.4** Conditions to avoid

Incompatible products.

### 10.5 Incompatible materials

Acids, Halogens, Halocarbons, Alcohols, Acid chlorides, Acid anhydrides, Metals.

### **10.6 Hazardous decomposition products** Hydrogen. Potassium oxides.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Product Information, Component Information**

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide	333 mg/kg (Rat)	-	-

### Skin corrosion/irritation

Mixture causes burns.

### Serious eye damage/eye irritation

Mixture causes serious eye damage. Risk of blindness.

### Respiratory or skin sensitization

No information available.

### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Potassium hydroxide	1310-58-3	Not listed				

### Specific target organ toxicity - single exposure

No information available.

### Specific target organ toxicity - repeated exposure

No information available.

### **Reproductive toxicity**

No information available.

### Chronic effects

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation.

### 11.2 Additional Information

The toxicological properties have not been fully investigated.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Contains a substance which is harmful to aquatic organisms.

Product		Species	Test Results
Potassium hydroxide	LC50	Gambusia affinis	80 mg/L, 96h, static

### 12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information available.

### 12.3 Bio accumulative potential

No information available.

### 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

### **12.5 Results of PBT and vPvB assessment** No information available.

### **12.6 Endocrine disrupting properties** No information available.

NO INIOMATION AVAILABLE.

### 12.7 Other adverse effects

No information 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 Proper Shipping Name

UN1814 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
ΙΑΤΑ	
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 applicable.

CERCLA Hazardous Substance List (40 CFR 302.4) Listed, Potassium hydroxide (CAS #1310-58-3), RQ: 1000 lb.

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 Acute Health Hazard.

SARA 313 (TRI reporting) Not regulated.

### 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.

### Clean Water Act (CWA - Hazardous Substances)

Listed, Potassium hydroxide (CAS #1310-58-3), RQ: 1000 lb.

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

Not listed.

#### **US state regulations**

#### US. Massachusetts RTK - Substance List

Listed, Potassium hydroxide (CAS #1310-58-3).

US. New Jersey Worker and Community Right-to-Know Act Listed, Potassium hydroxide (CAS #1310-58-3).

**US. Pennsylvania Worker and Community Right-to-Know Law** Listed, Potassium hydroxide (CAS #1310-58-3).

### California Proposition 65

Not listed.

### **SECTION 16: Other information**

Issue date: 10/17/2024

### **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.