



# **SAFETY DATA SHEET**

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

#### 1.1 Product identifiers

Product name Potassium Hydroxide 0.1N Solution

CAS number See Section 3

Synonyms N/A

# 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 MetalsCategory 1Skin Corrosion/IrritationCategory 2Serious Eye Damage/Eye IrritationCategory 2A

# 2.2 GHS Label elements, including precautionary statements

Laballey.com Page 1 of 10

Pictogram



Signal Word Warning

Hazard statements May be corrosive to metals.

Causes skin irritation.

Causes serious eye irritation.

Precautionary statements

Prevention: Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face

protection. Keep only in original container.

IF ON SKIN (or hair): Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and

wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

Get medical advice/ attention.

Spills: Absorb spillage to prevent material damage.

Storage: Store in corrosive resistant polypropylene container with a resistant

inliner.

# 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	Chemical name Common name and synonyms		Concentration
Water	Aqua; H2O	7732-18-5	99-99.5%
Potassium hydroxide	Caustic potash; Potassium hydrate	1310-58-3	0.5-1%

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

# 4.1 Description of first-aid measures

General advice

**If inhaled** Remove to fresh air.

In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/

shower.

Laballey.com Page 2 of 10

In case of eye contact Rinse out with plenty of water. Call in ophthalmologist. Remove contact

lenses.

If swallowed Immediately make victim drink water (two glasses at most). Consult a

physician.

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

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

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

Show this safety data sheet to the doctor in attendance. 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

Nature of decomposition products not known. Not combustible. Ambient fire may liberate hazardous vapours.

## 5.3 Special protective equipment and precautions for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** No information available.

**Explosion limits** 

Upper No data available.Lower No data available.

Laballey.com Page 3 of 10

# Sensitivity to Mechanical Impact Sensitivity to Static Discharge NFPA

No information available. No information available.

Health	Flammability	Instability	Physical hazards
1	0	0	N/A

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

## 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see Section 8.

#### 6.2 Environmental precautions

No special precautionary measures necessary.

## 6.3 Methods and materials for containment and cleaning up

Observe possible material restrictions (see Sections 7 and 10). Take up with liquid absorbent and neutralising material. Dispose of properly. Clean up affected area.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements. See Section 13 for disposal.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

#### Precautions on safe handling

For precautions see Section 2.2.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

#### **Storage conditions**

No metal containers. Tightly closed.

# Incompatibilities

Animal/vegetable tissues, various plastics, glass, 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)

Laballey.com Page 4 of 10

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

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

Component	Type	Value	
Potassium hydroxide	Ceiling	2 mg/m3	

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

Component	Type	Value
Potassium hydroxide	Ceiling	2 mg/m3

## **Biological occupational exposure limits**

No information available.

## 8.2 Exposure controls

#### Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

## Personal protective equipment

## **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

#### 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.

#### Control of environmental exposure

No special precautionary measures necessary.

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

# 9.1 Information on basic physical and chemical properties

Physical State Liquid

Laballey.com Page 5 of 10

Appearance Colorless
Odor Odorless

Odor Threshold No information available pH No information available

Melting Point/Range No data available

Boiling Point/Range No information available Evaporation Rate No information available

Flammability (solid) Not applicable
Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure No information available Vapor Density No information available

Density 1.00 g/cm3
Solubility Soluble in water
Partition coefficient; No data available

n-octanol/water

Autoignition Temp
Decomposition Temp
Viscosity
No information available
No information available
1.01 cSt, kinematic

Molecular Formula KOH

Molecular Weight 56.11 g/mol

VOC Content(%)

Oxidizing properties

No information available

No information available

# 9.2 Other safety information

No information available.

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

## 10.1 Reactivity

No information available.

## 10.2 Chemical stability

Stable under normal conditions.

# 10.3 Possibility of hazardous reactions

Violent reactions possible with the generally known reaction partners of water.

#### 10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5 Incompatible materials

Animal/vegetable tissues, various plastics, glass, metals.

# 10.6 Hazardous decomposition products

In the event of fire: see Section 5.

Laballey.com Page 6 of 10

# **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	333-384 mg/kg (Rat)	-	-

#### Skin corrosion/irritation

Mixture causes skin irritation.

# Serious eye damage/eye irritation

Mixture causes serious eye irritation.

## Respiratory or skin sensitization

No information available.

# Germ cell mutagenicity

No information available.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed				
Potassium hydroxide	1310-58-3	Not listed				

## Specific target organ toxicity - single exposure

None known.

# Specific target organ toxicity - repeated exposure

None known.

# Reproductive toxicity

No information available.

## **Chronic effects**

No information available.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated.

## **SECTION 12: Ecological information**

Laballey.com Page 7 of 10

# 12.1 Toxicity

Do not empty into drains.

Product		Species	Test Results
Potassium hydroxide	LC50	Freshwater Fish	50-165 mg/L (96h)

# 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.

#### 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 UN1814

Proper Shipping Name POTASSIUM HYDROXIDE, SOLUTION

Hazard Class 8
Packing Group III

**IMDG** 

UN-no UN1814

Proper Shipping Name POTASSIUM HYDROXIDE, SOLUTION

Hazard Class 8
Packing Group III

IATA

UN-no UN1814

Laballey.com Page 8 of 10

Proper Shipping Name POTASSIUM HYDROXIDE, SOLUTION

Hazard Class 8
Packing Group III

## **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

See Section 2 for more information.

## 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** 

Laballey.com Page 9 of 10

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: 02/06/2018 Revision 1: 01/07/2025

#### **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.

Laballey.com Page 10 of 10