Registered Name: **BizinBiz Technologies Private Limited**
Registered Address: 3/8 2nd Floor, Asaf Ali Road, Above Dabur India Pvt. Ltd., New Delhi, India, 110002
CIN: U24290DL2021PTC382855 | **GST: 07AAJCB9425C1ZR**
IEC: AAJCB9425C

# MATERIAL SAFETY DATA SHEET

| **Section 1. Identification** | |
|---|---|
| Product Name | Potassium Hydroxide |
| Cat No. : | P246-3; P250-1; P250-3; P250-10; P250-50; P250-500; P251-3; P251-50; P251-500; P258-12; P258-50; P258-50LC; P258-212; XXP25812KG; XXP25850KG; NC1429443; NC1416131; NC1617169 |
| Synonyms | Potassium hydrate; Lye; Caustic potash |
| Recommended Use Uses advised against | Laboratory chemicals. Food, drug, pesticide or biocidal product use. |

**Details of the supplier of the safety data sheet**

**Supplier:** Elchemy
**Company Address:** A-448, Pocket 2, Sector 8, Rohini, New Delhi, Pin Code: 110085, India
**Company Web Site:** www.elchemy.com
**Emergency Phone Number:** +919867099519 (24 Hrs)
**Email Id:** info@elchemy.com

## Section 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

- Corrosive to metals Category 1

- Acute oral toxicity Category 4
- Skin Corrosion/Irritation Category 1 A
- Serious Eye Damage/Eye Irritation Category 1
- Specific target organ toxicity (single exposure) Category 3
- Target Organs - Respiratory system.

## Label Elements

### Signal Word
Danger

### Hazard Statements

- May be corrosive to metals
- Harmful if swallowed
- Causes severe skin burns and eye damage
- May cause respiratory irritation



### Precautionary Statements

#### Prevention

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wear protective gloves/protective clothing/eye protection/face protection
- Use only outdoors or in a well-ventilated area
- Keep only in original container

#### Response

- Immediately call a POISON CENTER or doctor/physician

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse

**Eyes**

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

**Ingestion**

- Rinse mouth
- Do NOT induce vomiting

**Storage**

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed
- Store in corrosive resistant polypropylene container with a resistant inliner

**Disposal**

- Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

## Section 3. Composition/Information on Ingredients

| Component | CAS No | Weight % |
|---|---|---|

| | | |
|---|---|---|
| Potassium hydroxide | 1310-58-3 | 100.0 |

## Section 4. First-aid measures

| | |
|---|---|
| General Advice | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. |
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing. |
| Skin Contact | Wash off immediately with soap and plenty of water while removing all contaminated |

### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

### Ingestion

Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects Notes to Physician

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 should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation. Treat symptomatically.

## Section 5. Fire-fighting measures

| | |
|---|---|
| Suitable Extinguishing Media | Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. |
| Unsuitable Extinguishing Media | Carbon dioxide (CO2) |
| Flash Point | Not applicable |
| Method | No information available |
| Autoignition Temperature Explosion Limits | No information available |
| Upper | No data available |
| Lower | No data available |
| Sensitivity to Mechanical Impact | No information available |
| Sensitivity to Static Discharge | No information available |

**Specific Hazards Arising from the Chemical**

The product causes burns of eyes, skin and mucous membranes.

**Hazardous Combustion Products**

Potassium oxides.

**Protective Equipment and Precautions for Firefighters**

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.

**NFPA**

- Health: 3
- Flammability: 0
- Instability: 1
- Physical hazards: N/A

## Section 6. Accidental Release Measures

| | |
|---|---|
| Personal Precautions | Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. |
| Environmental Precautions | Should not be released into the environment. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. |

### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## Section 7. Handling and Storage

| | |
|---|---|
| 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 dust. Do not ingest. If swallowed then seek immediate medical assistance. |

### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Corrosives area. Incompatible Materials: Water, Metals, Acids.

## Section 8. E xpos ure controls / personal protection

### Exposure Guidelines

| Component | ACGIH TLV | OSHA PEL | NIOSH | Mexico OEL (TWA) |
|---|---|---|---|---|
| Potassium hydroxide | Ceiling: 2 mg/ $m^3$ | (Vacated) Ceiling: 2 $mg/m^3$ | Ceiling: 2 mg/ $m^3$ | Ceiling: 2 mg/ $m^3$ |

### Legend

- ACGIH - American Conference of Governmental Industrial Hygienists
- OSHA - Occupational Safety and Health Administration
- NIOSH: NIOSH - National Institute for Occupational Safety and Health

| | |
|---|---|
| Engineering Measures | None under normal use conditions. 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 1910.13 or European Standard EN166. |
| Skin and body protection | Wear appropriate protective gloves and clothing to prevent skin exposure. |
| Respiratory Protection | No protective equipment is needed under normal use conditions. |
| Recommended Filter type: | Particulates filter conforming to EN 143. |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice. |

## Section 9. Physical and Chemical Properties

| | |
|---|---|
| Physical State | Solid |
| Appearance | Light yellow |
| Odor | Odorless |
| Odor Threshold | No information available |
| pH | 13.5 (0.1M) |
| Melting Point/Range | 360 °C / 680 °F |
| Boiling Point/Range | 1320 °C / 2408 °F |
| Flash Point | Not applicable |
| Evaporation Rate | Not applicable |
| Flammability (solid, gas) | No information available |
| Flammability or explosive limits | |
| Upper | No data available |
| Lower | No data available |

| | |
|---|---|
| Vapor Pressure | No information available |
| Vapor Density | Not applicable |
| Specific Gravity | 2.04 |
| Solubility | Soluble in water |
| Partition coefficient; n-octanol/water | No data available |
| Autoignition Temperature | No information available |
| Decomposition Temperature | No information available |
| Viscosity | Not applicable |
| Molecular Formula | KOH |
| Molecular Weight | 56.1 |

## Section 10. Stability and reactivity

| | |
|---|---|
| Reactive Hazard | Yes |
| Stability | Moisture sensitive. Air sensitive. |
| Conditions to Avoid | Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water. |
| Incompatible Materials | Water, Metals, Acids |
| Hazardous Decomposition Products Potassium oxides | |
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Hazardous Reactions | None under normal processing. |

## Section 11. Toxicological information

### Acute Toxicity

### Product Information

### Component Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Potassium hydroxide | LD50 = 333-384 mg/kg (Rat) | Not listed | Not listed |

### Toxicologically Synergistic Products

No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|---|---|
| Irritation | Causes severe burns by all exposure routes |
| Sensitization | No information available |
| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico |
|---|---|---|---|---|---|---|
| Potassium hydroxide | 1310-58-3 | Not listed | Not listed | Not listed | Not listed | Not listed |

| | |
|---|---|
| Mutagenic Effects | No information available |
| Reproductive Effects | No information available. |
| Developmental Effects | No information available. |
| Teratogenicity | No information available. |
| STOT - single exposure<br>STOT - repeated exposure | Respiratory system None known |
| Aspiration hazard | No information available |
| Symptoms / effects, both delayed acute and | Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Ingestion causes severe swelling, severe damage to delicate tissue and danger of perforation. Possible perforation of stomach or esophagus should be investigated. |
| Endocrine Disruptor Information | No information available |
| Other Adverse Effects | The toxicological properties have not been fully investigated. |

## Section 12. Ecological information

### Ecotoxicity

Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Contains a substance which is harmful to aquatic organisms. The product contains the following substances which are hazardous for the environment.

### Persistence and Degradability

Persistence is unlikely

### Bioaccumulation/ Accumulation

No information available.

### Mobility

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

| Component | log Pow |
|---|---|
| Potassium hydroxide | 0.83 |

## Section 13. Disposal considerations

### 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 | |
|---|---|
| UN-No | UN1813 |
| Proper Shipping Name | Potassium hydroxide, solid |
| Hazard Class | 8 |
| Packing Group | II |
| TDG | |
| UN-No | UN1813 |
| Proper Shipping Name | POTASSIUM HYDROXIDE, SOLID |

| | |
|---|---|
| Hazard Class | 8 |
| Packing Group | Il |
| IATA | |
| UN-No | UN1813 |
| Proper Shipping Name | POTASSIUM HYDROXIDE, SOLID |
| Hazard Class | 8 |
| Packing Group | Il |
| IMDG/IMO | |
| UN-No | UN1813 |
| Proper Shipping Name | POTASSIUM HYDROXIDE, SOLID |
| Hazard Class | 8 |
| Packing Group | II |

## Section 15. Regulatory information

### United States of America Inventory

| Component | CAS No | No TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|---|---|---|---|---|
| Potassium hydroxide | 1310-58-3 | Yes | ACTIVE | - |

**Legend:**

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

## U.S. Federal Regulations

**SARA 313** Not applicable

**SARA 311/312 Hazard Categories** See section 2 for more information

**CWA (Clean Water Act)**

| Component | CWA - Hazardous Substances | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|---|---|---|---|---|
| Potassium hydroxide | Yes | 1000 lb | - | - |

**Clean Air Act** Not applicable

**OSHA - Occupational Safety and Health Administration** Not applicable

**CERCLA** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Component | Hazardous Substances RQs | CERCLA EHS RQs |
|---|---|---|
| Potassium hydroxide | 1000 lb | - |

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---|---|---|---|---|---|
| Potassium hydroxide | Yes | Yes | Yes X | No - | Yes X |

## U.S. Department of Transportation

**Reportable Quantity (RQ):** Y

**DOT Marine Pollutant** N

**DOT Severe Marine Pollutant** N

## U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

## Other International Regulations

**Mexico - Grade** No information available

## Authorisation/Restrictions according to EU REACH

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|---|---|---|---|---|
| Potassium hydroxide | 1310-58-3 | - | Use restricted. See item 75. (see link for restriction details) | - |

**REACH links**

https://echa.europa.eu/substances-restricted-under-reach

## Safety, health and environmental regulations/legislation specific for the substance or mixture

| Component | CAS No | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|---|---|---|---|---|---|
| Potassium hydroxide | 1310-58-3 | Listed | Not applicable | Not applicable | Not applicable |

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?
Not applicable

## Other International Regulations

| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|---|---|---|---|---|---|
| Potassium hydroxide | 1310-58-3 | Not applicable | Not applicable | Not applicable | Annex I Y35 |

## 16. Other information

| | |
|---|---|
| Prepared By | BizinBiz Technologies Private Limited (Elchemy) |
| Creation Date | 02-Nov-2009 |
| Revision Date | 13-Oct-2023 |
| Print Date | 13-Oct-2023 |
| Revision Summary | This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). |

## Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

**End of SDS**

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