



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

## Safety Data Sheet (MSDS)

(According to GB/T 16483, GB/T 17519, and GHS Standards)

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Potassium Hydroxide (85% Solid Pellets)
- Product Number:KOH-20260214
- Brand:TECHPURE
- CAS-No.:1310-58-3
- Synonyms: Caustic Potash; Potassium Hydrate

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

- Company : NEWAY SINOPHC TECH. LIMITED
- RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI)PILOT FREE TRADE ZONE.
- Telephone : +86-021-50350029
- Fax : +86-021-50350029

#### 1.3 Emergency telephone

Emergency Phone # : +86-021-50350029  
(CHEMTREC)

#### 1.4 Uses & Restrictions

- Identified Uses: Chemical synthesis, soap making, laboratory reagent.
- Uses Advised Against: Food contact, medicinal purposes, unventilated enclosed space use.

### SECTION 2: Hazards Identification

#### 2.1 GHS Classification

- Skin corrosion/irritation (Category 1A)
- Eye damage/eye irritation (Category 1)
- Corrosive to metals (Category 1)
- Aquatic toxicity (Category 1)

#### 2.2 GHS Label Elements

- Hazard Pictogram: Corrosion; Environment
- Signal Word: Danger
- Hazard Statements: H314 (Causes severe skin burns and eye damage); H290 (May be corrosive to metals); H400 (Very toxic to aquatic life)
- Precautionary Statements: P260 (Do not breathe dust); P280 (Wear protective gloves/eye/face protection); P304+P340 (If inhaled: Remove to fresh air)

### SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Pure substance
- Active Component: Potassium Hydroxide (CAS 1310-58-3)
- Concentration:  $\geq 85.0\%$
- Impurities:  $\leq 15.0\%$  (Water, potassium carbonate)



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## SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; give oxygen if needed; seek emergency medical attention.
- Skin Contact: Remove contaminated clothing; rinse skin with plenty of running water for 15-20 minutes.
- Eye Contact: Hold eyes open; rinse continuously with plenty of running water for 15 minutes; seek emergency medical attention.
- Swallowed: Do not induce vomiting; rinse mouth with water; seek immediate medical attention.

## SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Dry powder, CO<sub>2</sub>, foam, water spray.
- Special Hazards: Non-flammable; releases heat when mixed with water; corrosive to metals.
- Advice for Firefighters: Wear self-contained breathing apparatus and full protective clothing.

## SECTION 6: Accidental Release Measures

- Personal Precautions: Evacuate non-essential personnel; wear full PPE; eliminate ignition sources.
- Environmental Precautions: Prevent entry into drains/watercourses; neutralize with acid absorbents.
- Clean-Up Methods: Small spills: Sweep with inert acidic materials; large spills: Contain and transfer to sealed containers.

## SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated areas with corrosion-resistant equipment; use anti-static tools.
- Storage: Cool, dry, well-ventilated warehouse ( $\leq 30^{\circ}\text{C}$ ); sealed, moisture-proof, away from acids.
- Incompatibilities: Acids, metals, oxidizing agents.

## SECTION 8: Exposure Controls/Personal Protection

- PPE: Chemical safety goggles/face shield; nitrile rubber gloves; chemical-resistant clothing.
- Exposure Limits: TWA (8h): 2 mg/m<sup>3</sup> (OSHA); STEL (15min): 6 mg/m<sup>3</sup> (OSHA).

## SECTION 9: Physical and Chemical Properties

- Physical State: Solid; Color: White; Odor: Odorless
- Melting Point: 360°C; Boiling Point: 1320°C; Density (20°C): 2.04 g/cm<sup>3</sup>
- Solubility: 112 g/100 mL water (25°C); Vapor Pressure (25°C): < 0.001 kPa

## SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions; absorbs moisture and CO<sub>2</sub> from air.
- Hazardous Reactions: Reacts violently with acids and metals.

## SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): 273 mg/kg; Inhalation (Rat, LC<sub>50</sub>): > 1000 mg/m<sup>3</sup> (4h)
- Skin/Eye Corrosion: Severe skin burns; permanent eye damage risk.



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### SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Zebrafish, LC<sub>50</sub>): 50 mg/L (96h); Daphnia (EC<sub>50</sub>): 80 mg/L (48h)
- Biodegradability: Non-biodegradable; neutralize before disposal.

### SECTION 13: Disposal Considerations

- Product Waste: Dispose as hazardous waste; neutralize with acid before disposal.
- Packaging Waste: Rinse with water; dispose as hazardous waste or recycle.

### SECTION 14: Transport Information

- UN Number: 1813
- UN Proper Shipping Name: POTASSIUM HYDROXIDE
- Transport Hazard Class: 8 (Corrosive); Packaging Group: II
- Marine Pollutant: Yes

### SECTION 15: Regulatory Information

- National Regulations: Hazardous Chemical Safety Management Regulation; Environmental Protection Law.
- International Regulations: GHS (Rev. 9); REACH (EU, listed); TSCA (US, listed); IMDG Code.

### SECTION 16: Other Information

- Revision Date:14 FEB 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.

纳维盈医化科技  
NEWAY SINOPHC TECH