



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

Caustic Potash *SDS*

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS **1310-58-3** EC **215-181-3** SIGNAL WORD **DANGER**

GHS05 Corrosive	GHS06 Acute Toxicity	GHS07 Harmful / Irritant	GHS08 Health Hazard
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SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Caustic Potash
Product Type	Potassium Hydroxide — corrosive / irritant chemical
Chemical Family	Inorganic base (alkali metal hydroxide)
CAS No.	1310-58-3
EC No.	215-181-3
Intended Use	Industrial / professional use as described on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/caustic-potash
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Met. Corr. 1; Acute Tox. 3 (oral); Acute Tox. 4 (oral); Skin Corr. 1; Eye Dam. 1; STOT RE 1	
Signal Word	DANGER



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GHS Pictograms

GHS05 (Corrosive) | GHS06 (Acute Toxicity) | GHS07 (Harmful / Irritant) | GHS08 (Health Hazard)

HAZARD STATEMENTS

- H290 — May be corrosive to metals
- H301 — Toxic if swallowed
- H302 — Harmful if swallowed
- H314 — Causes severe skin burns and eye damage
- H318 — Causes serious eye damage
- H370 — Causes damage to organs (respiratory tract) through single exposure (route of exposure: inhalation)
- H372 — Causes damage to organs through prolonged or repeated exposure

PRECAUTIONARY — PREVENTION

- P234 — Keep only in original packaging.
- P260 — Do not breathe dust / fume / vapours.
- P264 — Wash hands thoroughly after handling.
- P270 — Do not eat, drink or smoke when using this product.
- P271 — Use only outdoors or in a well-ventilated area.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301+P312 — IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
- P301+P330+P331 — IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 — IF ON SKIN OR HAIR: Take off immediately all contaminated clothing. Rinse skin with water / shower.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 — Immediately call a POISON CENTRE or doctor.
- P363 — Wash contaminated clothing before reuse.



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- P390 — Absorb spillage to prevent material damage.
- P405 — Store locked up.
- P501 — Dispose of contents / container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Potassium Hydroxide (Caustic Potash)	1310-58-3	215-181-3	≥ 85 (solid flakes / pellets) or as supplied grade	Met. Corr. 1 (H290); Acute Tox. 3 (H301); Acute Tox. 4 (H302); Skin Corr. 1A (H314); Eye Dam. 1 (H318); STOT RE 1 (H372)

Full text of H-statements listed in Section 16. Percentage reflects typical commercial grades (flake, pellet, solution); confirm grade with supplier COA.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person immediately to fresh air. Keep comfortable for breathing. If breathing is difficult, administer oxygen. Seek medical attention if symptoms (coughing, irritation) persist.
Skin Contact	Remove contaminated clothing immediately. Flush affected skin with large amounts of water for at least 15 minutes. Seek medical attention; caustic burns require prompt treatment.
Eye Contact	Rinse cautiously with water for at least 15–20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention — serious eye damage is likely.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. Give water or milk to drink if the person is conscious and not convulsing. Seek immediate medical attention / call POISON CENTRE.
Note to Physician	Corrosive alkali — treat burns symptomatically. Do not neutralise in situ. Supportive care; monitor airways in inhalation cases.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Product is not combustible. Use extinguishing media appropriate for surrounding fire: water spray, dry powder, CO ₂ , or foam.
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Unsuitable Media	Avoid high-pressure water jets directly on material — may cause spattering of hot caustic solution.
Specific Hazards	Potassium hydroxide itself does not burn. Contact with water (especially hot water) generates heat and may cause spattering. Reacts with aluminium and zinc to release hydrogen gas, which is flammable.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA, EN 136 / NIOSH-approved). Fire may produce irritating fumes.
Special Procedures	Evacuate non-essential personnel. Cool containers exposed to heat with water spray. Prevent contaminated firefighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the area. Wear appropriate PPE (see Section 8): chemical-resistant gloves, goggles, face shield, and protective clothing. Avoid contact with skin, eyes, and clothing. Avoid breathing dust.
Environmental Precautions	Prevent entry into drains, sewers, soil, and surface watercourses. Notify relevant authorities if environmental release occurs.
Containment / Clean-up	For solid: sweep up or vacuum using non-sparking equipment; collect in labelled, compatible containers for disposal. Avoid generating dust. For solution spills: absorb with inert material (vermiculite, dry sand) and collect in labelled containers. Do not use sawdust or paper.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate local exhaust ventilation. Avoid generating and inhaling dust (solid grades). Avoid skin, eye, and clothing contact. Use chemical-resistant equipment. Do not mix with acids or reactive metals.
Hygiene	Wash hands thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not eat, drink, or smoke when using this product.



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Storage Conditions	Store in original, tightly closed, compatible containers (polyethylene, polypropylene, stainless steel). Keep dry — absorbs moisture and CO ₂ from air. Store away from acids, halogens, and reactive metals.
Storage Temperature	Ambient (typically 15–30°C). Protect from freezing for concentrated solutions.
Incompatible Materials	Strong acids (violent neutralisation / heat), halogens, aluminium, zinc, tin, and other reactive metals (hydrogen generation), nitromethane, chlorinated solvents.
Segregation	Segregate from food, drink, animal feed, acids, and oxidising agents. Store in a separate locked area.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Potassium hydroxide (CAS 1310–58–3): ACGIH TLV–C 2 mg/m ³ (ceiling). OSHA PEL: not separately listed; apply ALARA / good industrial hygiene. India: refer to applicable Schedule of Permissible Exposure Limits. Confirm current regional OEL before use.
Engineering Controls	Use local exhaust ventilation (LEV) to control dust and aerosols below OEL. Closed handling systems preferred. Provide emergency eyewash and safety shower where caustic is handled.
Respiratory Protection	If dust or aerosol exposure cannot be controlled below OEL by engineering means, use a NIOSH/EN 143–approved half–mask with P100 (particulate) filter. Use SCBA for emergency response or high–concentration scenarios.
Hand / Eye / Skin	Gloves: chemical–resistant (butyl rubber, neoprene, or PVC; ≥ 0.5 mm). Eyes/face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield when pouring or where splash risk exists. Body: chemical–resistant apron, lab coat, or coverall; safety boots. Hygiene: eyewash stations and safety shower must be immediately accessible.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White opaque solid (flakes, pellets, or sticks); or colourless to pale yellow viscous liquid (aqueous solution)
Odour	Odourless
Odour Threshold	Not applicable (odourless solid / solution)



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pH	13–14 (1% aqueous solution); strongly alkaline
Melting / Freezing Point	approx. 360°C (680°F) — source value confirmed for KOH (NTP, 1992)
Boiling Point / Range	approx. 1327°C (2421°F) at 760 mmHg — source value (NTP: 2408°F) remapped from misplaced line; consistent with literature
Flash Point	Not applicable — non-flammable inorganic solid
Auto-ignition Temperature	Not applicable — non-combustible
Flammability Limits	Not applicable — non-flammable
Vapour Pressure	1 mmHg at 714°C (1326°F); 5 mmHg at 814°C (1497°F) — source values remapped from misplaced 'Flammability Limits' line; consistent with high-boiling ionic solid (NTP, 1992)
Vapour Density (air = 1)	Not applicable at ambient conditions (ionic solid; negligible vapour pressure at room temperature)
Relative Density	approx. 2.04 g/cm ³ at 15°C (59°F) — source value remapped from misplaced 'Vapour Pressure' line; consistent with literature for KOH solid (USCG, 1999)
Solubility in Water	107 g/100 mL at 15°C (59°F); freely soluble — source value remapped from misplaced 'Vapour Density' line; consistent with PubChem / NTP data. Very soluble; dissolution is strongly exothermic.
Log Pow (Partition Coeff.)	Not applicable — inorganic ionic compound
Evaporation Rate	Not applicable (solid; negligible evaporation at ambient temperature)
Viscosity	Not applicable for solid grade; aqueous solutions: depends on concentration and temperature — see supplier COA
VOC Content	0 g/L (solid) / 0 g/L (aqueous solution) — no organic volatile content

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. Hygroscopic — absorbs moisture and carbon dioxide from air to form potassium carbonate; keep containers tightly closed.
Conditions to Avoid	Moisture / water (exothermic dissolution), heat above melting point, contact with incompatible materials listed below, CO ₂ atmosphere (carbonation of alkali).
Incompatible Materials	Strong acids (violent exothermic neutralisation). Reactive metals — aluminium, zinc, tin (generates flammable hydrogen gas). Halogens (chlorine, bromine). Oxidising agents (nitric acid, permanganates,



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peroxides). Nitromethane (risk of explosive reaction). Chlorinated solvents.

Hazardous Decomposition	Thermal decomposition above melting point may release potassium oxide fumes. In fire conditions, irritating / toxic potassium oxide vapour may form. No significant decomposition at ambient temperature.
Hazardous Reactions	Reaction with reactive metals (Al, Zn) produces hydrogen gas — fire / explosion risk in confined spaces. Reaction with strong acids is highly exothermic. No hazardous polymerisation.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): 333 mg/kg (classified Acute Tox. 3, H301 — Toxic if swallowed). A second classification entry (Acute Tox. 4, H302) may reflect different grade data; confirm with supplier.
Acute Dermal Toxicity	Strong corrosive action; classification is driven by corrosivity (Skin Corr. 1A, H314) rather than a discrete dermal LD ₅₀ . Contact causes immediate chemical burns.
Acute Inhalation Toxicity	Dust and mist are severely irritating to the respiratory tract. STOT SE 3 / H370 classification indicates specific organ effect on inhalation (respiratory tract). Numeric LC ₅₀ not verified from reviewed sources — confirm with supplier SDS.
Skin Irritation	Classified Skin Corr. 1A (H314) — causes severe, potentially irreversible chemical burns; supersedes simple irritation classification.
Eye Irritation	Classified Eye Dam. 1 (H318) — causes serious eye damage; risk of permanent corneal damage on contact.
Sensitisation	No skin or respiratory sensitisation data identified for KOH.
Carcinogenicity	Not classified as carcinogenic. Not listed by IARC, NTP, or ACGIH as a carcinogen.
Mutagenicity	Not classified for mutagenicity / germ cell mutagenicity.
Specific Target Organ (Repeat)	H372 — Causes damage to organs (respiratory tract) through prolonged or repeated exposure; based on animal data. Use engineering controls and medical surveillance accordingly.
Aspiration Hazard	Note: H304 (aspiration hazard) listed in source classification line appears to be a template carry-over. Potassium hydroxide is an inorganic solid / aqueous solution and does not have aspiration



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hazard under GHS. This code should be removed — flagged for human review.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	KOH is strongly alkaline; aquatic toxicity is primarily pH-mediated. LC ₅₀ (fish, 96h): reported values typically 80–100 mg/L range for various freshwater species. Acute effects at high concentrations. No formal aquatic classification in Section 2 from reviewed data; avoid release to water bodies.
Persistence / Degradability	Inorganic compound — not subject to biodegradation in the conventional sense. Neutralised by natural water buffering capacity. Avoid large-volume releases that overwhelm local pH buffering.
Bioaccumulation	Not expected to bioaccumulate. Log Pow not applicable for ionic inorganic compound.
Mobility in Soil	Highly soluble; readily leaches to groundwater if released. Neutralised by acidic soils over time. Prevent release to soil and groundwater.
Other Adverse Effects	High pH raises aquatic toxicity risk. Comply with applicable local environmental regulations on discharge. Avoid uncontrolled release to the environment.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of through an authorised hazardous waste contractor in accordance with local regulations. Neutralise with dilute acid under controlled conditions before disposal to sewer, if permitted. Do not dispose of undiluted caustic to drains or open ground.
Contaminated Packaging	Empty containers may retain caustic residue — handle as hazardous waste until triple-rinsed or disposed of through an approved contractor. Residue-free containers may be recycled per local regulations.
Indian Regulations	Classify under Schedule of Hazardous Wastes, Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 (as amended) and the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Comply with applicable SPCB / CPCB requirements.



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SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1813	UN 1813	UN 1813
Proper Shipping Name	POTASSIUM HYDROXIDE, SOLID	POTASSIUM HYDROXIDE, SOLID	POTASSIUM HYDROXIDE, SOLID
Class	8 (Corrosive)	8 (Corrosive)	8 (Corrosive)
Packing Group	II	II	II
Marine Pollutant	No	No	—

For Potassium Hydroxide solution (liquid grade) use UN 1814, Packing Group II or III depending on concentration. Verify current ADR/IMDG/IATA editions and carrier requirements before shipment. UN-certified packaging required for international transport.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Potassium hydroxide is a registered substance under REACH (EC 215-181-3). Classified and labelled under EU CLP Regulation (EC) No 1272/2008 as per Section 2. Refer to ECHA C&L Inventory for harmonised or notified classifications.
OSHA (USA)	Prepared in OSHA HCS / HazCom 2012 (29 CFR 1910.1200) aligned 16-section SDS format. Potassium hydroxide is subject to OSHA hazard communication requirements.
India	Observe applicable requirements under: Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989; Hazardous and Other Wastes Rules, 2016; Environment Protection Act, 1986; Factories Act, 1948; and rules of relevant SPCB / CPCB.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify and label using Section 2 classification; bilingual SDS/label may be required. Australia AICS: verify inventory status before import. China: comply with GB/T SDS and classification requirements. Verify local inventory, OEL, and waste-code requirements before market placement in any jurisdiction.

SECTION 16 OTHER INFORMATION

Prepared By **Supreme Petro Chemicals** — Technical Department



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SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS

- H290 — May be corrosive to metals
- H301 — Toxic if swallowed
- H302 — Harmful if swallowed
- H314 — Causes severe skin burns and eye damage
- H318 — Causes serious eye damage
- H370 — Causes damage to organs (respiratory tract) if inhaled (single exposure)
- H372 — Causes damage to organs (respiratory tract) through prolonged or repeated exposure