

SAFETY DATA SHEET

POTASSIUM CARBONATE

CAS No.: 584-08-7

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Potassium Carbonate
CAS Number	584-08-7
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Warning
HAZARD CLASSIFICATION • Skin irritation - Category 2 • Serious eye irritation - Category 2A • Specific target organ toxicity, single exposure - Category 3 (respiratory irritation)	
HAZARD STATEMENTS • H315 - Causes skin irritation • H319 - Causes serious eye irritation • H335 - May cause respiratory irritation	
PRECAUTIONARY STATEMENTS • P261 - Avoid breathing dust • P264 - Wash exposed skin thoroughly after handling • P271 - Use only outdoors or in a well-ventilated area • P280 - Wear protective gloves/eye protection/face protection • P302+P352 - IF ON SKIN: wash with plenty of water • P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing • P337+P313 - If eye irritation persists: get medical advice/attention • P403+P233 - Store in a well-ventilated place; keep container tightly closed	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Potassium Carbonate
CAS Number	584-08-7
Physical State	Solid
Appearance / Odour	White, odorless, hygroscopic crystalline powder or granules.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing and seek medical attention if irritation persists.
Skin Contact	Wash off with plenty of water; remove contaminated clothing; seek medical attention if irritation persists.
Inhalation	Remove to fresh air; if dust inhalation causes coughing or respiratory irritation, seek medical attention.
Ingestion	Rinse mouth with water; give water to drink; seek medical advice if discomfort occurs or larger amounts are ingested.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Non-combustible; use any extinguishing media suitable for the surrounding fire.
Unsuitable Extinguishing Media	None identified.
Special Hazards	None significant; not combustible.

6. ACCIDENTAL RELEASE MEASURES

Measures	Sweep or vacuum up avoiding excessive dust generation and collect in a suitable container for reuse or disposal; neutralize residual alkaline area with dilute acid and flush with water if needed; floors may become slippery when wet.
----------	--

7. HANDLING AND STORAGE

Handling Precautions	Avoid generating and inhaling dust, avoid contact with eyes and skin, and use with adequate ventilation; hygroscopic — keep containers closed to prevent moisture pickup/caking.
Storage Conditions	Store in a cool, dry, well-ventilated place in a tightly closed container away from moisture and strong acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	No specific occupational exposure limit established for potassium carbonate itself; general nuisance-dust guidance applies (~10 mg/m ³ total dust); use a dust mask/respirator, chemical splash goggles and gloves when handling bulk powder.
-----------------------	--

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance / Odour	White, odorless, hygroscopic crystalline powder or granules.
Boiling Point	Not applicable
Melting Point	~891 C
Flash Point	Not applicable (non-combustible inorganic solid)
Density / Specific Gravity	~2.43 g/cm ³
Water Solubility	Freely soluble, ~1,120 g/L at 20 C
pH Value	~11.5-12.0 (1% aqueous solution, strongly alkaline)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions; hygroscopic and will absorb moisture from air, forming a caking or solution over time.
Incompatible Materials	Strong acids (releases carbon dioxide gas on contact) and strong oxidizers.
Hazardous Decomposition	None significant under normal conditions; reacts with acids to evolve carbon dioxide gas.

11. TOXICOLOGICAL INFORMATION

Summary	Causes skin and eye irritation and may cause respiratory irritation as an alkaline dust; low acute oral toxicity (LD50, rat, roughly 1,900 mg/kg); widely used industrial alkali; not classified as a carcinogen, mutagen or reproductive toxicant.
---------	---

12. ECOLOGICAL INFORMATION

Summary	Not classified as hazardous to the environment; readily dissociates in water into naturally occurring potassium and carbonate ions; can cause transient pH elevation in aquatic systems at high concentrations but is not persistent or bioaccumulative.
---------	--

13. DISPOSAL CONSIDERATIONS

Disposal Method	Neutralize with dilute acid if necessary and dispose of in accordance with local regulations; generally suitable for dilution to sewer within permitted limits or landfill disposal; not a hazardous waste at typical concentrations.
-----------------	---

14. TRANSPORT INFORMATION

UN Number	Not regulated for transport
Transport Hazard Class	Not regulated
Packing Group	Not applicable

15. REGULATORY INFORMATION

Notes	Widely used in glass, ceramics, detergents, food processing and chemical manufacturing; classified as an irritant under GHS, OSHA HCS and EU CLP; food-grade material (E501) should meet FCC/Codex specifications separately; not regulated for transport as a dangerous good.
-------	--

16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

"DEALERS IN ACIDS, SOLVENTS, MINERALS, BASES AND SPECIALISED CHEMICAL COMPOUNDS"

+91 - 9840284032, 9176135357
+91 - 44 - 25393652, 42130281
sales@surajchemicals.com
surajchemicals@yahoo.com

No 92, Govindappa Naicken Street
Shiva Complex, Chennai - 600001
www.surajchemicals.com
GST NO : 33ACEPV8190L1ZZ

AUTHORISED DEALER AND IMPORTER FOR
GRASIM INDUSTRIES (ADITYA BIRLA), BASF (GERMANY), GODREJ INDUSTRIES, SNF (FRANCE)