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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Calcium Carbonate (Precipitated)	**Revision date:** 2026-10-29	**Version:** 1.0	**Brand:** Richest

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

Product name	Calcium Carbonate (Precipitated)
Synonyms	Precipitated calcium carbonate; PCC; Limestone; Chalk
CAS No.	471-34-1
EC No.	207-439-9
Molecular formula	CaCO3
Molecular weight	100.09 g/mol
Relevant identified uses	Weighting and bridging agent for drilling fluids; filler for plastics, rubber, paper, paints and coatings; food and pharmaceutical additive.
Uses advised against	None
Company	Richest Group Ltd.
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SECTION 2: Hazards identification

GHS Classification	Not classified
Pictogram(s)	None
Signal word	None
Hazard statement(s)	None
Precautionary statement(s)	None

Other hazards	None known.

SECTION 3: Composition/information on ingredients

Component	Calcium carbonate
CAS No.	471-34-1
EC No.	207-439-9
Classification	Not classified
Concentration (%)	98.0 % - 100.5 %

SECTION 4: First aid measures

If inhaled	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult or irritation persists, seek medical attention.
In case of skin contact	Take off contaminated clothing. Wash with soap and plenty of water. If irritation occurs, seek medical advice.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.
If swallowed	Rinse mouth. Do NOT induce vomiting. Seek medical attention if large amounts are swallowed or if you feel unwell.
Most important symptoms and effects	May cause mechanical irritation of eyes, skin and respiratory tract. Ingestion of large amounts may cause gastrointestinal discomfort.
Indication of any immediate medical attention	Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media	The product is non-flammable. Use extinguishing media appropriate to the surrounding fire: water spray, foam, dry powder, carbon dioxide (CO2).
Unsuitable extinguishing media	None.
Special hazards arising from the chemical	Decomposes above 825 °C forming calcium oxide and carbon dioxide.
Advice for firefighters	Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective	Avoid dust formation and inhalation of dust. Wear appropriate personal

equipment and emergency procedures	protective equipment (see section 8).
Environmental precautions	Prevent further leakage or spillage. Do not let large quantities enter drains or waterways.
Methods and materials for containment and cleaning up	Sweep up and shovel into suitable, dry, closed containers for disposal. Avoid raising dust.

SECTION 7: Handling and storage

Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation and contact with eyes. Provide adequate ventilation.
Conditions for safe storage, including any incompatibilities	Store in a dry and well-ventilated place. Keep container tightly closed. Keep away from acids.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values	OSHA PEL: 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction); NIOSH REL: 10 mg/m3 (total), 5 mg/m3 (respirable)
Biological limit values	No biological exposure index (BEI) established.
Appropriate engineering controls	Ensure adequate ventilation. Use local exhaust ventilation where dust is generated.
Eye/face protection	Tightly fitting safety goggles or safety glasses with side-shields.
Skin protection	Handle with impervious gloves. Wash and dry hands after use.
Body protection	Wear appropriate protective clothing.
Respiratory protection	In case of dust formation, wear a suitable particulate respirator.
Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	White powder
Colour	White
Odour	Odourless
Melting point / freezing point	825 °C (decomposes)
Boiling point or initial boiling point and boiling range	Not applicable (decomposes)

Flammability	Non-flammable
Lower and upper explosion limit / flammability limit	Not applicable (non-flammable inorganic solid)
Flash point	Not applicable
Auto-ignition temperature	Not applicable (non-flammable)
Decomposition temperature	> 825 °C (decomposes to calcium oxide and carbon dioxide)
pH	8.5-9.5 (saturated aqueous solution)
Kinematic viscosity	Not applicable (solid)
Solubility	Approx. 0.014 g/l in water (20 °C), practically insoluble
Partition coefficient n-octanol/water	Not applicable (inorganic substance)
Vapour pressure	Negligible (solid at room temperature)
Density and/or relative density	2.7-2.95 g/cm3
Relative vapour density	Not applicable (non-volatile solid)
Particle characteristics	Fine white powder

SECTION 10: Stability and reactivity

Reactivity	Reacts with acids liberating carbon dioxide.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions under normal conditions; reacts with strong acids evolving carbon dioxide gas.
Conditions to avoid	Contact with strong acids.
Incompatible materials	Strong acids.
Hazardous decomposition products	Calcium oxide, carbon dioxide (above 825 °C).

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat - 6,450 mg/kg; LD50 Dermal - Rat - > 2,000 mg/kg; LC50 Inhalation - Rat - 4 h - > 3 mg/l (highest technically attainable concentration)
Skin corrosion/irritation	Not irritating to skin (rabbit, OECD 404)
Serious eye damage/irritation	Not irritating to eyes (rabbit, OECD 405); dust may cause mechanical irritation
Respiratory or skin sensitization	Not a skin sensitizer

Germ cell mutagenicity	Negative in in-vitro genotoxicity tests
Carcinogenicity	Not listed by IARC, NTP, ACGIH or OSHA as a carcinogen
Reproductive toxicity	Not classified (based on available data)
STOT - single exposure	Not classified; dust may cause mechanical irritation of the respiratory tract
STOT - repeated exposure	Not classified (based on available data)
Aspiration hazard	Not classified (solid; not an aspiration hazard)

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	Practically non-toxic to aquatic organisms; LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 % saturated solution - 96 h; no toxicity at the limit of water solubility. Dissociates to Ca2+ and carbonate ions naturally abundant in water.
Persistence and degradability	Inorganic substance; biodegradation not applicable. Dissociates in water to calcium and carbonate ions.
Bioaccumulative potential	Not applicable (inorganic ionic substance; no bioaccumulation expected)
Mobility in soil	Low mobility; precipitates as insoluble carbonate in most natural waters
Other adverse effects	None known

SECTION 13: Disposal considerations

Product disposal methods	Dispose of contents in accordance with local, regional and national regulations. Offer surplus and non-recyclable product to a licensed disposal company.
Contaminated packaging	Dispose of as unused product or in accordance with local regulations.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	Not regulated as dangerous goods
UN Proper Shipping Name	Not regulated as dangerous goods
Transport hazard class(es)	Not regulated as dangerous goods
Packing group	Not regulated as dangerous goods
Environmental hazards (Marine pollutant)	No
Special precautions for user	No special precautions required during transport.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product	EINECS: Listed; TSCA (USA): Listed; IECSC (China): Listed; DSL (Canada): Listed; AICS (Australia): Listed.

SECTION 16: Other information

Full text of H-Statements	None
Revision date	2026-10-29
Version	1.0

Abbreviations and acronyms: CAS: Chemical Abstracts Service; EC: European Commission; EINECS: European Inventory of Existing Commercial Chemical Substances; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulation concerning the International Carriage of Dangerous Goods by Rail; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; TWA: Time Weighted Average; STEL: Short Term Exposure Limit; LD50: Lethal Dose 50%; LC50: Lethal Concentration 50%; EC50: Effective Concentration 50%; PBT: Persistent, Bioaccumulative and Toxic; vPvB: very Persistent and very Bioaccumulative; SDS: Safety Data Sheet.

References: ECHA - European Chemicals Agency, https://echa.europa.eu/; IPCS - International Chemical Safety Cards (ICSC), http://www.ilo.org/; HSDB - Hazardous Substances Data Bank; eChemPortal - OECD Global Portal to Information on Chemical Substances; ERG - Emergency Response Guidebook by U.S. DOT.

Disclaimer: The information in this SDS is only applicable to the specified product and is provided in good faith. It is based on the knowledge available to Richest Group Ltd. at the date of issue and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not constitute any guarantee of the properties of the product. Richest Group Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.