



SAFETY DATA SHEET

Calcium Carbonate

SECTION 1: Identification

Product Name	Calcium carbonate precipitated for analysis EMSURE
CAS-No.	471-34-1
Formula	CaCO ₃
Molecular Weight	100.09 g/mol
EC-No.	207-439-9

SECTION 2: Hazards Identification

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. No hazard pictogram, no signal word, no hazard or precautionary statements required.

SECTION 4: First Aid Measures

- Inhalation: Move to fresh air.
- Skin contact: Remove contaminated clothing. Rinse skin with water/shower.
- Eye contact: Rinse with plenty of water. Remove contact lenses.
- Ingestion: Make victim drink water (two glasses max). Consult doctor if unwell.

SECTION 5: Firefighting Measures

Not combustible. Use extinguishing measures appropriate to local circumstances. In event of fire, wear self-contained breathing apparatus. May produce calcium oxide vapours.

SECTION 7: Handling and Storage

Storage: Tightly closed. Dry. Storage class (TRGS 510): 13 - Non Combustible Solids.

SECTION 8: Exposure Controls/Personal Protection

- Eye: Safety glasses (NIOSH/EN 166 approved)
- Skin: Nitrile rubber gloves, min 0.11 mm thickness
- Respiratory: Filter type P1 when dusts generated

SECTION 9: Physical and Chemical Properties

Physical State	Solid
Color	Light gray
pH	8.0
Melting Point	800 deg C (decomposes)
Water Solubility	0.017 g/L at 20 deg C



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Density	2.8 g/cm ³
Flammability	Not flammable

SECTION 10: Stability and Reactivity

Stable under standard ambient conditions. Generates dangerous gases/fumes with acids, carbon dioxide, ammonium compounds. Exothermic reaction with fluorine, aluminum, magnesium.

SECTION 11: Toxicological Information

LD50 Oral (Rat): > 2,000 mg/kg. LC50 Inhalation (Rat): > 3 mg/L. No skin irritation. No eye irritation. Not a sensitizer. Negative mutagenicity results.

SECTION 14: Transport Information

Not dangerous goods (ADR/RID, IMDG, IATA). Not classified as dangerous for transport.