

Doc. # CaCl<sub>2</sub>-TDS-07Rev. # 00Effective Date: 01.01.2023**TITLE: TECHNICAL DATA SHEET (TDS) FOR CALCIUM CHLORIDE PRILLS****SECTION ①: PRODUCT INFORMATION**

Product Name	CAS #	Chemical Formula	Molar Mass	Density	Melting Point	Hazard Pictogram
Calcium Chloride Prills	10043-52-4	CaCl <sub>2</sub>	110.98 g/mol	2.15 g/cm <sup>3</sup>	772°C	

**SECTION ②: SPECIFICATIONS**

Appearance	CaCl <sub>2</sub> %	pH (10% solution w/v)	MgCl <sub>2</sub> %	Bulk Density g/cc	Water Insoluble %	NaCl %	Fe ppm
White Prills	Min. 94.0	8.5 – 9.5	Max. 0.4	0.70 – 0.80	< 0.1	< 0.4	Max. 10.0

**SECTION ③: APPLICATIONS**

Calcium chloride is widely used in the following areas:

Crude Oil and Gas sector as fluid additive in drilling operation, Hydrocarbon dehydration, Ice melting as quick deicing agent, Refrigerant liquor, Concrete acceleration, Hardener in paper corrugated board industry, Brine for food processing, Soil pH adjuster, Sewage purification aid, flocculent, removal of phosphates and fluorides, Purification/ Treatment of drinking water produced through deionization and sea brine reverse osmosis process, Environmental additive for cement kilns and a host of other diversified applications including agriculture.

**SECTION ④: HAZARD CLASSIFICATION**

According to Occupational Safety and Health (OSH/OHS) calcium chloride is irritant.

Hazard Statement: H319 (Eye irritation), H314 (Skin irritation),

Precautionary Statements: P305, P351 (Rinse cautiously with water), P313 + P337 (Get medical advice/attention), R Phrases: R34 (causes burns), R36 (Irritating to eyes)

All further measures to be taken related to transportation can be determined in the knowledge of its hazard labelling/ classification.

**SECTION ⑤: HANDLING AND SAFETY MEASURES**

Calcium chloride has such properties as quick dissolving, exothermic ability, and attracting moisture from the surrounding/air, dissolving at very low temperature therefore it must be kept in a dry and well ventilated covered place.

- If it gets into the eyes then remove contact lenses if present. Rinse eyes thoroughly with clean water for at least 10 minutes.
- If it affects the body, remove contaminated clothing. Wash off any skin contamination immediately with plenty of water.
- If inhalation occur then go to fresh air, keep warm and rest.
- If swallowed, do not induce vomiting. Wash out mouth with water and give plenty of water to drink (at least 300 ml). If symptoms persist; seek medical attention.
- Prevent uncontrolled discharges into the environment (rivers, water courses, sewers etc.). In case of large release to a sensitive environment: embank with sand or other inert material and collect the material. Clean up spills as soon as they occur. Collect as much as possible in a suitable clean container, preferably for re-use, otherwise for disposal. Wash the spillage area with large quantities of water.
- Choose extinguishing media depending on surrounding fire e.g. Carbon dioxide, dry chemical powder or appropriate foam.

**SECTION ⑥: PACKING AND TRANSPORT INFORMATION**

The product is available in specially designed laminated woven polypropylene bags of 25 kg and 1000 kg (1 Ton) (Jumbo polypropylene with inner polyethylene liner) bags each.