

ROADMASTER LIQUID CALCIUM CHLORIDE

Product Data Sheet

General Description

ROADMASTER™ liquid calcium chloride (CaCl₂) is a concentrated calcium chloride based aqueous solution used for surface dust control and soil stabilization on unpaved roads, road shoulders, embankments, stockpiles and construction sites. ROADMASTER liquid CaCl₂ is also used as a water extender. In highway construction, it is used as an additive to recycled asphalt to reduce voids and improve compaction and stabilization during new construction.

Applications

Calcium chloride is both hygroscopic and deliquescent. These related properties both involve absorption of atmospheric moisture and retention of moisture present in the soil. Unpaved surfaces treated with this product, when cured and compacted, form a hard and smooth riding surface.

ROADMASTER liquid CaCl₂ has exhibited superior performance on roadway construction materials that are typically difficult to treat.

Product longevity will vary with climate, soil type, degree of compaction of the surface, as well as traffic weight and frequency. Generally, a minimum of three to four months is common and, in some cases, up to one year of residual useful life has been experienced.

Availability

ROADMASTER liquid calcium chloride is available from over 20 plant and terminal locations throughout North America. For the location nearest you, refer to the plant and terminal map available on our website (www.tetrachemicals.com) or contact your TETRA sales or customer service representative.

TETRA Chemicals

24955 Interstate 45 North
The Woodlands, Texas 77380

Phone: 281.367.1983

Customer Service: 800.327.7817

Fax: 281.298.7150

www.tetrachemicals.com

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Safety and Handling

ROADMASTER liquid calcium chloride is a strong salt solution. Wear appropriate protective, impervious clothing. Wear safety glasses with non-flexible side shields or chemical goggles for proper protection of the eyes. Wear appropriate protective non-leather protective gloves and boots. Chemical protective gloves and boots such as PVC or Nitrile are recommended. Leather products do not offer adequate protection and will dehydrate with resultant shrinkage and possible destruction. This product should be handled in areas with proper ventilation. Before using this product, refer to the SDS which is available on the Company's website for complete safety and handling guidelines.

PHYSICAL PROPERTIES

Appearance	Clear/colorless liquid
Odor	None
Assay	28 to 38% by weight CaCl ₂
Crystallization Temperature	-38°F (-39°C) to 42.1°F (5.6°C)
Specific Gravity @ 68°F (20°C)	1.264 to 1.378
Bulk Density	10.53 to 11.49 lb/gal

CHEMICAL PROPERTIES

Chemical	CaCl ₂
pH	Slightly alkaline
Impurities (on 100% CaCl₂ basis)	
Alkali Chlorides	< 0.1% by weight
Magnesium (as MgCl₂)	< 0.1% by weight
Other Impurities (not H₂O)	< 1.0% by weight