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Paper Text

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1 Prejudism in the 1930s, down in the Southern United States, was not good

2 Calcium chloride is used for such things as dust control, road deicing, and to assist in oil and gas drilling. 3 It is easily manufactured for a variety of sources. underground brines in Michigan, a by-product of hydrochloric acid streams, and soda ash can harbor calcium chloride. For years the market was supplied by three major manufactures- Dow Chemical, General Chemical, and Tetra Technologies- all of which produce such a high-volume that it creates oversupply and poor prices. These companies already produced roughly 1.5 million tons per year and out of that only about 1 million tons are used. In 1995, Ambar Incorporated decided that they were going to enter the calcium chloride market. They spent over \$60 million on supplies and opened behind schedule in 1997. Then North America experienced the warm and low precipitation winters in 1999 and 2000, there was an incredibly low demand for calcium chloride and the company failed. (paper mill)

4 In recent years, the market demand for calcium chloride has shifted. Consumption within the largest market segment, deicing, is heavily dependent on weather conditions. A sharp decline in this market has occurred over recent years as a succession of mild winters lowered demand. Deicing consumption was 38 percent of total US end use during 1994, but declined to 30 percent in 1997 and then 22 percent in 2000. During this time, demand for calcium chloride in oil and gas exploration increased from 4 percent to 17 percent. Unless there is a change in the general weather pattern, this demand mix is expected to continue. While the calcium chloride market experienced strong demand from increased oil and gas exploration for the past couple of years, lower prices crude oil and gas this year will adversely affect the demand for drilling fluids, and with this, calcium chloride as well. Industry capacity is more than adequate to meet future demands as the industry's operating rate is about 60 percent. (Proquest)

Necrosis of the skin after contact with calcium chloride has been described in a variety of situations, including that of oil field workers and prolonged electroencephalographic testing (contact paste).[1,2,3] Circumscribed dystrophic dermal calcification was reported for the first time in 1935 and may follow the application of dry calcium or calcium-containing solutions.[4] The authors report a case of percutaneous penetration of a defrosting, industrial calcium salt, which was followed by deep-dermal thigh necrosis in a child. This uncommon injury raised concern about child abuse. (finartides)

5 Calcium Chloride has unique properties that make it ideal for maintaining unpaved roads and fortifying road bases for new construction. 6 It is calcium chloride's ability to regulate moisture on road surfaces that is the key to building roads that last. Calcium Chloride keeps roads moist, day-in and day-out, keeping nuisance dust down. Reduced pot-holing and rutting made possible by calcium chloride surface stabilization makes roads safer year round. Stabilized calcium chloride roads can reduce aggregate loss by up to 75%. In addition, they significantly reduce the frequency and costs associated with periodic grading. 5 Uniform compaction and residual calcium chloride helps protect road bases from winter freezing and related frost heaving. Long known as an effective ice melter, calcium chloride lowers the freezing point of moisture in road bases to nearly 60 degrees below zero. (Internet)

7 Investigations have shown that a two percent addition of calcium chloride has equal cure strength at 50F as plain concrete has at 70F. 6 Regardless of the temperature or cement type, concrete mixes containing calcium chloride will always have a faster cure rate than plain concrete. The beneficial effects of calcium chloride will be even more pronounced at lower temperatures. 7 The accelerated cure rate measured as final concrete set

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