REQUEST FOR SPRAYING OF CALCIUM CHLORIDE

Date Requested: _____

Name of Resident Requesting: _____

Address of Resident Requesting: _____

Phone #: _____

Signature: _____

Name of Neighbor Across: _____ Vacant Land? Yes or No (Please Circle)

Address of Neighbor Across: _____

Phone #: _____

Signature: _____ Approve/Disapprove

Description of problem or concern:

_____

_____

_____

_____

Disposition (*for office/road crew use*):

_____

_____

_____

By: _____

Date: _____ District: _____

By signing this form all members acknowledge that they will not hold liable, Hawaiian Paradise Park Owners Association during and after the application of this dust suppressant.

HAWAIIAN PARADISE PARK OWNERS ASSOCIATION
HC 3 BOX 11000 • KEAAU, HI 96749
PHONE: 808-966-4500 FAX: 808-982-5198
www.hppoa.net

***Calcium chloride** is an inorganic compound, a salt with the chemical formula $CaCl_2$. It is a white crystalline solid at room temperature, and it is highly soluble in water. It can be created by neutralizing hydrochloric acid with calcium hydroxide.

Calcium chloride is commonly encountered as a hydrated solid with generic formula $CaCl_2 \cdot nH_2O$, where n = 0, 1, 2, 4, and 6. These compounds are mainly used for de-icing and dust control. Because the anhydrous salt is hygroscopic and deliquescent, it is used as a desiccant.

The second largest application of calcium chloride exploits its hygroscopic nature and the tackiness of its hydrates; calcium chloride is highly hygroscopic, and its hydration is an exothermic process. A concentrated solution keeps a liquid layer on the surface of dirt roads, which suppresses the formation of dust. It keeps the finer dust particles on the road, providing a cushioning layer. If these are allowed to blow away, the large aggregate begins to shift around, and the road breaks down. Using calcium chloride reduces the need for grading by as much as 50% and the need for fill-in materials as much as 80%.

In the food industry, calcium chloride is frequently employed as a firming agent in canned vegetables, particularly for canned tomatoes and cucumber pickles.[17] It is also used in firming soybean curds into tofu and in producing a caviar substitute from vegetable or fruit juices. It is also used to enhance the texture of various other products, such as whole apples, whole hot peppers, whole and sliced strawberries, diced tomatoes, and whole peaches.

Hazards

Although the salt is non-toxic in small quantities when wet, the strongly hygroscopic properties of non-hydrated calcium chloride present some hazards. It can act as an irritant by desiccating moist skin. Solid calcium chloride dissolves exothermically, and burns can result in the mouth and esophagus if it is ingested. Ingestion of concentrated solutions or solid products may cause gastrointestinal irritation or ulceration

*Wikipedia, 29 May 2024, Calcium Chloride

https://en.wikipedia.org/wiki/Calcium_chloride

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