

HI-CHLOR CHLORIDE NUTRIENT

Product Data Sheet

General Description

Hi-Chlor® chloride nutrient is a clear liquid solution with a minimum of 22% chloride content. Extensive university studies have confirmed that chloride fertilization helps suppress many soil-borne and plant tissue diseases in crops such as wheat, barley, corn, potatoes, onions, and rice. Its role in improving the uptake of cationic nutrients has also been proven. Correcting chloride deficiencies can help maximize crop yield and grower profits. Hi-Chlor nutrient, while being the highest chloride containing fertilizer, also provides calcium nutritional value to crops through its calcium content.

Applications

Hi-Chlor chloride nutrient can be mixed with urea or urea-containing solutions. The mixture is applied in the same manner as the application of nitrogen solutions. Hi-Chlor should be applied according to recommendations based on soil and irrigation water testing and plant analysis. Common Hi-Chlor application rates are 10 to 15 gals/Acre.

Response to chloride in wheat is commonly expected when soil chloride levels are low to medium and potash or other chloride-containing fertilizers are not applied in the crop rotation.

For onion crops, Hi-Chlor should be applied to the soil at 5 gals/Acre at the time of transplanting, followed by multiple applications of 5 gals/Acre at the five-leaf stage and 10 gals/Acre in the mid-season and at the bulbing stage. 20 gals/Acre of Hi-Chlor is recommended 30 days prior to harvesting. This application improves the yield and quality of the produce and the ease of the harvesting of crops.

As chloride can leach out of the soil cross-section with rainfall or irrigation water, its applications need to be split to optimize the chloride input to crops.

Hi-Chlor is recommended to be applied to the soil and not to be sprayed on foliage.

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Availability

Hi-Chlor chloride nutrient is available in bulk only.

Safety and Handling

Hi-Chlor chloride nutrient is a strong calcium chloride salt. 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.

CHEMICAL PROPERTIES

Chemical	CaCl ₂
Appearance	Clear to straw liquid solution
Odor	None
Assay	Typically 12% by weight Ca
Density	Approx. 11.09 lb/gal
pH	7.0

TYPICAL ANALYSIS*

Guaranteed Analysis Calcium (Ca)	12% by weight
Chloride (Cl)	22 to 26% by weight
Arsenic (As)	< 5 mg/kg
Heavy Metals (including Pb)	< 20 mg/kg
CoBalt (Co)	< 10 mg/kg
Lead (Pb)	< 10 mg/kg
*impurities based on 100% CaCl ₂ basis	