

## PRODUCT SPECIFICATION SHEET

**Product:** ALCHLOR-50 CF (Select Grade)

**Specification code:** AC50

**Description:** aluminium chlorhydrate, 50% aqueous solution, cosmetic grade

**Synonyms:** aluminium chlorhydrate; 83% basic aluminium chloride; 5/6 basic aluminium chloride

PROPERTY	SPECIFICATION
Total aluminium as alumina (Al <sub>2</sub> O <sub>3</sub> ) (divide by 1.889 to convert to total aluminium)	230 to 240 g/kg 23.0 to 24.0 % w/w
Total aluminium as aluminium chlorhydrate (Al <sub>2</sub> (OH) <sub>5</sub> Cl·2.3H <sub>2</sub> O)	487 to 508 g/kg 48.7 to 50.8 % w/w
Chloride (Cl <sup>-</sup> )	79 to 84 g/kg 7.9 to 8.4 % w/w
Iron	25 mg/kg maximum
Trace metals - sum of: Arsenic Cadmium Copper Lead	5.0 mg/kg maximum
Light transmittance at 420 nm (10 mm path length)	95% minimum
Specific gravity (SG) at 25°C (SG of water = 1.000 at 15°C)	1.325 –1.345
pH at 25°C (diluted to SG = 1.08)	4.15 minimum

### PACKAGING

Bulk containers; 1000 litre bulki-boxes; 200 litre Mauser type plastic drums

### PROPERTIES

Alchlor is a concentrated high purity aqueous solution that is slightly more viscous than water and is indefinitely stable when protected from evaporation. Due to its slight acidity and high chloride concentration it may slowly corrode some types of steel. This grade of Alchlor is manufactured so as to have a very low concentration of iron and trace metals.

### APPLICATIONS

Aluminium chlorhydrate is the active ingredient in antiperspirant and deodorant formulations.

### HAZARD DATA

Alchlor 50 is classified as hazardous according to the criteria of Worksafe Australia, owing mainly to the fact that it is mildly irritating to the eyes. Corrosion tests carried out in the Hardman laboratory have verified that Alchlor is non-corrosive and as a result does not require a Dangerous Goods classification.

Hardman Australia will supply the latest Material Safety Data Sheet for this product on request.



ISO 9001:2000  
Quality  
Management



ISO 14001:2004  
Environmental  
Management



AS/NZS 4801:2001  
Occupational Health  
& Safety Management



Joint Accreditation  
System of Australia  
& New Zealand



Accredited for  
Technical  
Competence