



Alcloxa A.S. Modified

INCI name: *Aluminum chlorohydrate, Allantoin*

Appearance: Fine white powder

Description

Alcloxa A.S. Modified is an aluminium derivative of allantoin with high solubility in water, designed for antiperspirants, shaving and foot preparations. It is a form of Alcloxa complexed with propylene glycol which provides sustained astringent action and anti-irritant properties for use at high concentration in aqueous and hydro-alcoholic systems, aerosols, lotions and powders.

Properties and stability

Alcloxa A.S. Modified stays for Alcloxa Alcohol Soluble Modified, it is very soluble in water and soluble in hydro-alcoholic systems. Stable in the pH range 3-8 and to 80°C process heating.

Applications and use levels

Alcloxa A.S. Modified imparts the antiperspirant activity of aluminium salts plus the cosmetic and therapeutic properties of complexed allantoin. No additional astringents are required when this compound is utilized in the recommended concentrations.

The incorporation of Alcloxa A.S. Modified in such preparations will impart to them anti-irritant action, even in presence of pre-existing irritations and is particularly indicated for individuals with sensitive skin. Provides sustained antiperspirant activity with effective comfortable drying effect, without affecting the skin moisture balance and leaves a non-sticky non-crystalline film. Additionally it is non-corrosive to containers and valves and not destructive on clothes.

Alcloxa A.S. Modified is used in aqueous formulations, hydro-alcoholic systems, emulsions and powders.

- In **antiperspirants & deodorants** can be used at concentration of 6-10% in aerosols and pump sprays, at 12-20% in rolls-on, sticks, creams and gels.
- In **pre-shave & after-shave products** at 4-8% exerts a healing effect on surface lesions and soothes the irritations produced by shaving.
- In **foot products** at 12-20% in lotions, creams powders is useful for the control of perspiration and odour.

Clinical tests

Alcloxa A.S. Modified is non-sensitizing and non-irritating. A series of 100 females were subjected to patch tests with an aqueous and antiperspirant spray both containing 10% Modified A.S. Alcloxa, for the purpose of determining the irritation or sensitization potential on the skin.

The patch tests were performed on the upper back onto one-half inch square, covered and allowed to remain in contact with the skin for 48 hours. The test areas were observed upon removal of the patches for immediate reaction and 72 hours after application for delayed reactions. Retests were performed 14 days later with the same technique. There was no evidence of primary irritation on the initial 48 hour patch test, and no indication of any sensitization of the skin on the retest performed 14 days later.

References

- S. B. Mecca (1976) Uric acid, allantoin and allantoin derivatives. Part 2. Soap, Perfumery and Cosmetics, 42, pp. 434-444.

Technical support

For further information, documentation and samples please contact us.