



> Antiperspirant Actives

COSMETICS

ALOXICOLL[®] 51P

Enhanced Efficacy and Alcohol Soluble Antiperspirant Active

INCI Name: Aluminum Chlorohydrate Empirical Formula: Al₂(OH)₅Cl x nH₂O

Description

ALOXICOLL[®] 51P is an enhanced efficacy antiperspirant active, providing improved sweat reduction over standard Aluminium Chlorohydrate, ALOXICOLL[®] PF40. The increase in efficacy is attributed to an activation step, which causes a change in the polymer distribution. This can be measured by HPLC. A shift of polymers from band 1 to band 2 (min. 50 % of band 2) indicates an enhanced sweat reduction and increased alcohol solubility.

Chemical Properties

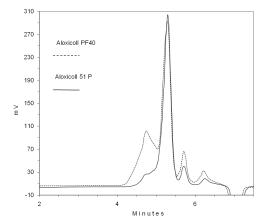
Aqueous / alcoholic solutions of ALOXICOLL[®] are slightly acidic. At pH values > 5, insoluble Al(OH)₃ precipitates out. On drying, the residue decomposes to HCl and Al(OH)₃. On further heating to temperatures >100°C, Al(OH)₃ releases water.

Physiological Properties

According to the application area and concentration applied, ALOXICOLL® exhibits sweat reducing, deodorant, astringent, antibacterial and antiphlogistic properties.

Application

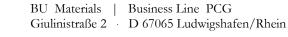
ALOXICOLL® 51P is primarily used in anhydrous formulations, e.g. aerosols, sticks, soft solids, suspension roll-ons and creams, where an enhanced antiperspirant effect is desired.



General Data

Form Aluminium Chloride Al : Cl Iron Heavy metals [as Pb] pH [15 % solution] Particle size

fine powder 24,4 - 26,1 % 15,8 - 17,1 % 1,91 - 2,10 max. 100 ppm max. 20 ppm 4,0 - 4,8 97 % < 45µm



Raw Materials / Trade name	INCI name	w/w [%]
Gilugel® SIL 5 (1)	Cyclopentasiloxane (and) Cyclohexasiloxane (and) Aluminum/Mag- nesium Hydroxide Stearate	29,00
Isopropyl Myristate	Isopropyl Myristate	20,00
DC 345 Fluid(2)	Cyclopentasiloxane (and) Cyclohexasiloxane	18,00
Aloxicoll 51P (1)	Aluminum Chlorohy- drate	33,00
	Filling instruction:	
Antiperspirant bulk	Antiperspirant bulk	25,00
Propane	Propane	5,25
Butane	Butane	29,75
n-Pentane	n-Pentane	40,00

Procedure

Mix **Gilugel**[®], IPM and volatile Silicone under rapid agitation. Disperse the **Aloxicoll**[®] Powder and mix under shear until the solids are uniformly dispersed. Add perfume, fill into cans, degas and pressurise.

Suppliers

1)BK Giulini 2)Dow Corning

Safety

ALOXICOLL® 51P is an Aluminium Chlorohydrate according to USP 36.

The FDA Final Antiperspirant Monograph classifies ALOXICOLL[®] 51P under category 1, as safe and effective for use in all types of antiperspirant formulations.

Packaging

ALOXICOLL[®] 51P is available in 70 kg PE-drums.

Storage

ALOXICOLL[®] 51P can be stored for more than 3 years in original, unopened containers. Once opened, the material should be used quickly and contact with moisture should be avoided.

BK Giulini GmbH has attempted to be accurate and informative regarding the products described herein: however, due to the vast potential for use of such products, we cannot take responsibility for results from the use of any product, method, or apparatus mentioned in this brochure. We must advise that no statement or suggestion herein is to be considered a recommendation or inducement for any use, manufacture, or sale that may infringe any patents now or hereafter in existence. It is the user's responsibility to make and be guided by his own tests in determining the suitability of any such product, method, or apparatus for any purpose.