

DEFINITION

Solution of monomethylsilanetriol pyrrolidone carboxylate and copper pyrrolidone carboxylate saturated with sodium pyrrolidone carboxylate.

I.N.C.I. name : COPPER PCA METHYLSILANOL

ANALYTICAL COMPOSITION

1 kg of SILHYDRATE C contains :

Monomethylsilanetriol	2.0 g	
in which silicon is		0.63 g
2-pyrrolidone 5-carboxylic acid	190.0 g	
Copper Pyrrolidone carboxylate	0.5 g	

CHARACTERISTICS

Clear blue, limpid liquid with no particular odour.

pH about 5.5

Specific density at 20° C about 1.1

Dry extract about 23 %

Miscible with water, alcohols and glycols.

INCOMPATIBILITIES

SILHYDRATE C must not be exposed to temperatures below 0°C.

TOXICITY

SILHYDRATE C is not toxic. L.D. 0 > 20 ml/kg

Negative genotoxicity (SOS Chromotest Kit)

Tolerance is perfect : eye irritation, acute and subacute toxicit

Negative skin sensitization

ACTIVITIES

Moisturizing action due to the pyrrolidone carboxylate ion and silanol form which generates bonded water.

Epidermic and dermic restructuring action.

Fights cutaneous atony.

USING INDICATIONS

Cutaneous moisturization

Anti-aging formulations

Double chin treatments, flabby and atonic skin treatments

USING CONDITIONS

Active ingredient designed for use in cosmetic and health products such as : milks, emulsions, creams, lotions, solutions...

It is necessary to maintain a pH between 4.5 and 6.5, and to incorporate SILHYDRATE C in emulsions at the end of manufacturing process at a temperature below 30°C.

SILHYDRATE C contains about 20 % electrolytes.

PRESERVATION

SILHYDRATE C contains the following preservatives :

Sodium methylparahydroxybenzoate	0.128 %
Propyl parahydroxybenzoate	0.032 %

DOSES TO BE USED

5 to 10 %

LITERATURE

Documents available on request.