COLD CREAM FORMULATION

Principle: Cold creams are typically beeswax-borax emulsions

They are so-called as cold cream because on application to skin the evaporation of water leads to cooling effect. When a solution of borax is added to molten beeswax emulsifying agent is formed because of wax acid and borax i.e. Wax acid is saponified by borax forming Na-soap (i.e. Na-soap of wax acid This agent is formed at the interface between oil & water, which emulsifies the mineral oil in water. It is because of beeswax, cream is able to contain appreciable amount of water. These are typically white creams of higher-class free form greasiness, which has firm consistency and on application they liquefy and spread easily.

This cream can be either o/w type (or) w/o type depending upon the ratio of water phase, 45% is considered to be the critical level of water phase, cream-containing water less than 45% is w/o type & cream with water phase more than 45% is o/w type of emulsion. Percentage of beeswax used ranges from 5-15% & borax 5-6% of w.t. of beeswax. Lesser amount of beeswax gives softer cream and higher amount give stiffer cream. Cold cream has got a neutral pH.

Both w/o & o/w emulsion can be obtained by beeswax borax which depends upon:

- Ratio of oil to water phase.
- Temperature of preparation.
- Amount of beeswax saponified.
- Other ingredient present.

OBSERVATION TABLE

INGREDIENTS	OFFICIAL QTY	REQUIRED QTY
Bees Wax	80g	2g
Mineral Oil	490ml	12.25ml
Soft Paraffine	70g	1.75g
Cetyl Alcohol	10g	0.25g
Borax	4g	0.1g
Water	346ml	8.65ml
Perfume	Qs	Qs

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Procedure: Take 2.16 gm beeswax, 1.89 gm of soft paraffin, 0.27 gm of cetylalcohol 13.2 ml mineral oil in a clean dry vessel and heat on water bath to 80°C. Dissolve borax in water in another vessel and heat simultaneously with the oil phase to 70°C. Add the aqueous phase to oil phase slowly with rapid stirring. Continue stirring slowly after the additions of aqueous phase until the cream has cooled to about 50°C. Add the per fume, mix well. Weigh out 25 gm of cream and fill into jar. At the time of filling the cream, it should have cooled to 40-42°C.

Category: Humectants.

Storage: Store in a cool and dry place.

Direction: "For external use only"

Uses: To prevent loss of water for dry skin especially during

winter and skin smoothener.

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