

Cosmetics

Lipsticks

Definition



- Lipsticks are solid, wax-based products intended to color and protect the lips.
- The primary objectives in formulating lipsticks are:
 - **Color payoff:** Deliver vibrant, even coloration.
 - **Texture:** Ensure a smooth and uniform application.
 - **Stability:** Maintain structure under different temperature conditions.
 - **Safety:** Use ingredients that are non-irritating when applied to the lips.

Key Ingredients

1. **Waxes:** Provide structure and firmness (e.g., carnauba wax, beeswax, candelilla wax).
2. **Oils:** Add gloss and spreadability (e.g., castor oil, mineral oil, lanolin).
3. **Pigments:** Provide color (e.g., iron oxides, organic pigments).
4. **Preservatives and antioxidants:** Ensure product stability (e.g., tocopherol, BHT).
5. **Fragrance:** For aesthetic appeal.

Formulation and Preparation

1. Melting and Mixing (Oil Phase & Wax Phase)

- Waxes are heated to their melting point.
- Oils, butters, and other oil-soluble ingredients are added and mixed until homogenous.

2. Color Dispersion

- Pigments are ground or milled (e.g., three-roll mill) with a portion of the oil to reduce particle size and ensure uniform distribution.
- This pigment-oil mixture is then added to the melted wax phase under constant stirring.

3. Cooling and Homogenization

- The mixture is cooled slightly to allow partial solidification.

- Thorough stirring ensures that pigments remain uniformly dispersed.

4. **Molding**

- The cooled, semi-solid lipstick mass is poured into lipstick molds (often metal or silicone).
- The lipstick is left to solidify (sometimes in a cooling tunnel), then removed from the molds.

5. **Flaming and Finishing**

- The lipstick is passed through a gentle flame to create a glossy surface and remove surface imperfections.
- Final lipsticks are inserted into their cases or tubes.

Shampoos

Definition



- Shampoos are cleansing formulations designed for the hair and scalp.
- The key goals are:
 - **Cleansing:** Removal of sebum, dirt, and styling products.
 - **Foam and lather:** Consumer perception of cleansing efficacy.
 - **Hair conditioning:** Minimizing tangling and damage.
 - **Scalp care:** Maintaining scalp health, minimizing irritation.

Key Ingredients

1. **Surfactants:** Provide cleansing and foaming (e.g., sodium lauryl sulfate, cocamidopropyl betaine).
2. **Conditioners:** Improve hair texture (e.g., silicones, panthenol).
3. **Thickeners:** Adjust viscosity (e.g., xanthan gum, carbomers).

4. **Preservatives:** Prevent microbial growth (e.g., parabens, phenoxyethanol).
5. **Fragrance and Colors:** For sensory appeal.

Formulation and Preparation

1. Pre-dispersion of Surfactants:

- Dissolve surfactants in water. If using a blend, add one component at a time ensuring complete dissolution.

2. Incorporation of Thickeners/Polymers:

- Hydrate the chosen polymer in water (or in a portion of the formulation) to form a uniform gel.

3. Mixing Actives and Additives:

- Slowly add conditioning agents, pH adjusters, and other active ingredients while stirring.

4. Adjustment of pH:

- Monitor pH using a meter and adjust to the target level.

5. Cooling and Addition of Fragrances/Preservatives:

- To preserve the integrity of sensitive components, add them at lower temperatures.

6. Homogenization:

- Continuous stirring ensures uniformity. High-shear mixing may be used for stable emulsions.

7. Packaging:

- Filled into bottles ensuring minimal exposure to air and contamination.

Cold Cream

Definition:



- Cold creams are water-in-oil (W/O) emulsions, traditionally used for cleansing and moisturizing the skin.



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