# product label reading & formulation basics

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LA ROCHE-POSAY
LABORATOIRE DERMATOLOGIQUE
ANTHELIOS
UVMUNE 400
50+
UVB + UVA
ANTI-OXYDANT
Très haute protection / Very high protection
OIL CONTROL FLUIDE / FLUID
ULTRA LONG-UVA
PROTECTION
UVB
SHORT UVA
LONG UVA
400nm
Clinical Formulations
with Integrity
Formulations Cliniques
Empreintes d'intégrité
The
Ordinary.
Hyaluronic Acid 2% + B5
A Hydration Support Formula with
Hyaluronic Acid, Pro-Vitamin B5, and Ceramide
Acide Hyaluronique 2% + B5
Une Formule qui Soutient l'Hydratation de la
Peau avec de l'Acide Hyaluronique, de la
Provitamine B5 et des Céramides
Clinical Formulations
with Integrity
Formulations Cliniques
Empreintes d'intégrité
The
Ordinary.
Niacinamide 10% + Zinc 1%
High-Strength Vitamin and
Mineral Blemish Formula
Niacinamide 10% + Zinc 1%
Formule Ultra-Vitaminée et
Minérale contre les Imperfections
Clinical Formulations
with Integrity
Formulations Cliniques
Empreintes d'intégrité
The
Ordinary.
Glycolic Acid 7%
Exfoliating Toner
pH 3.6
Tonique Exfoliant à
l'Acide Glycolique 7%
pH 3.6

# Introduction

- **Labelling is more than just a tag on a product it is the voice of the product itself. Through a simple piece of paper, metal, or plastic, a label communicates vital information such as composition, price, manufacturing details, and expiry date. It not only informs consumers but also gives each product a unique identity in a competitive market.**

Product Name and Function

Ingredients List

Country of Origin

PAO Symbol

Net Weight


Instructions of Use

Warnings/Precautions

Responsible Person

Batch Number

# labels

- **Labels provide critical information about a product's composition, purpose, and safety, allowing healthcare and beauty specialists to evaluate product suitability for different skin types and clinical conditions.**

# Main categories of labels

**Cosmetics: products designed primarily to cleanse, beautify, or improve appearance without altering body functions (e.g., creams, shampoos, makeup).**

**Cosmeceuticals: products positioned between cosmetics and pharmaceuticals, containing biologically active ingredients that may improve skin health or function (e.g., anti-aging serums, whitening creams).**

**Pharmaceuticals: medicinal products formulated to treat, prevent, or diagnose diseases, requiring strict clinical testing and regulatory approval**

# Regulatory Authorities

- **Regulatory authorities ensure that products meet approved standards of safety, quality, and accurate labeling. The main organizations include:**
- **FDA (U.S. Food and Drug Administration): Regulates the safety, labeling, and marketing of food, drugs, and cosmetics in the United States.**

# Regulatory Authorities

**EMA (European Medicines Agency): Oversees the evaluation and supervision of medicines within the European Union.**

**ISO (International Organization for Standardization): Establishes global standards for quality management, safety, and manufacturing processes.**

**Local Ministries of Health: Monitor national regulations to protect public health and ensure product compliance with local laws.**

# Types of Labeling

## 1. Brand Label

- **Shows the brand name, logo, or trademark.**
- **Helps the product stand out in the market and build consumer recognition.**

## 2. Descriptive Label

- **Provides information about the product, including ingredients, usage instructions, and benefits.**
- **Ensures the consumer understands how to use the product safely and effectively.**

# Types of Labeling

**3. Grade Label**

- **Indicates the quality or standard of the product.**
- **Helps consumers distinguish between different quality levels.**

**3. Informative Label**

- **Provides additional technical or regulatory information, such as batch number, manufacturing date, expiry date, storage conditions, and certifications.**
- **Ensures traceability and compliance with regulations.**

**4. Combination Label**

- **Integrates two or more types of labels (e.g., brand + descriptive + informative) in one.**
- **Most modern products use combination labels to provide complete product information.**


Brand name

Product type

Directions

Net contents


Manufacturer/ Distributor

Other symbols

eg Recyclable
Cruelty Free

## INCI List

List of ingrediets in descending order of concentration

## PAO

"Period after opening"

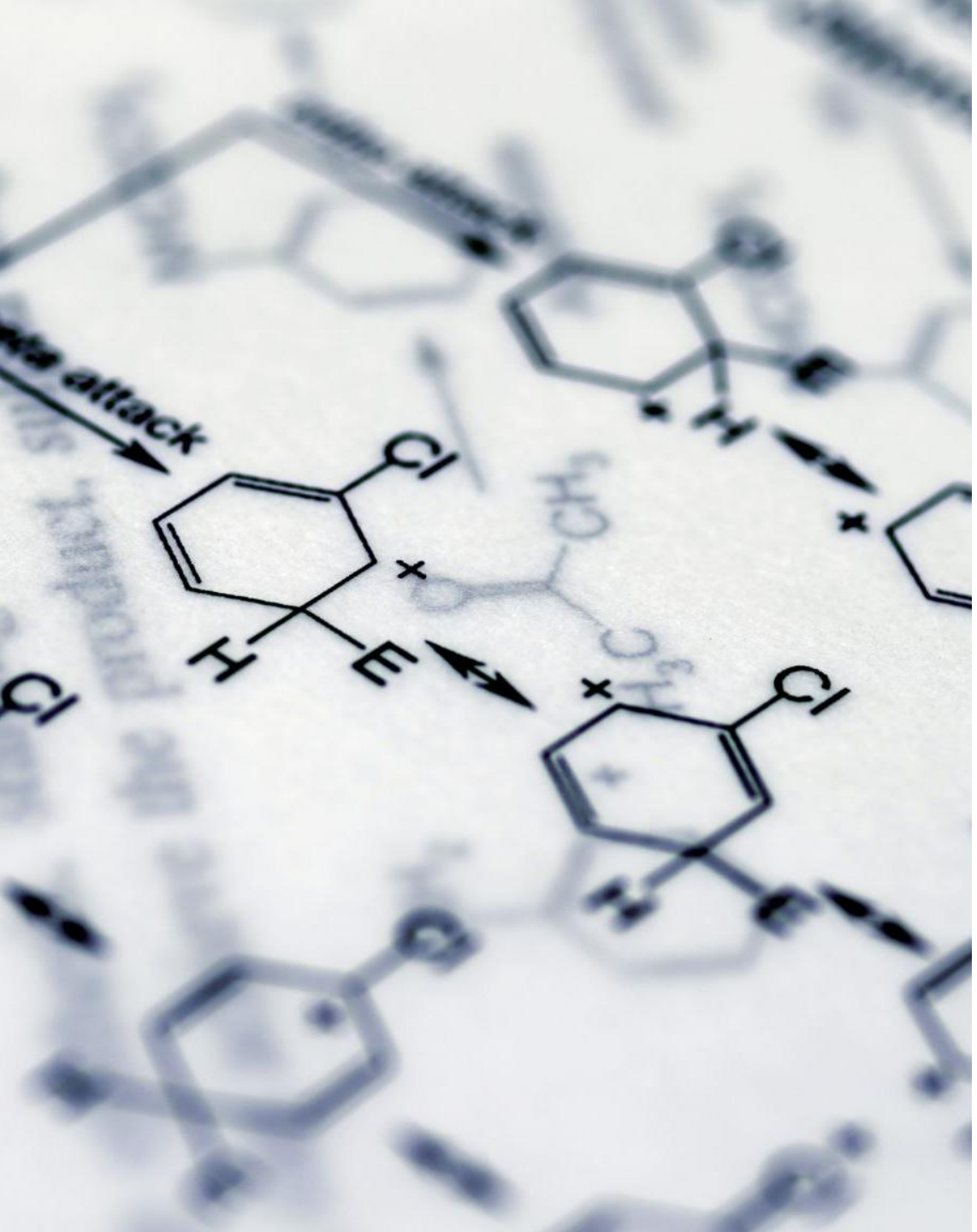
The product must be used within the timeframe noted inside the jar symbol (in months) after it has been opened.

# Formulation Basics

# Formulation

# Formulation

- **A formulation is the process of combining different ingredients in specific proportions to create a product with desired properties and functionality. In cosmetics and pharmaceuticals, formulation determines a product’s performance, texture, stability, and safety. Well-designed formulations ensure that active ingredients are effective, the product is pleasant to use, and it remains stable during storage.**


# Components of a Cosmetic Formulation

**1. Active Ingredients – Responsible for the product's primary effect, such as hydration or anti-aging (e.g., hyaluronic acid, niacinamide).**

**2. Excipients/Additives – Support the formulation by providing structure, texture, or functionality (e.g., solvents, emulsifiers, thickeners, fragrances).**

**3. Preservatives and Stabilizers – Ensure product safety and shelf-life by preventing microbial growth and degradation (e.g., parabens, phenoxyethanol, antioxidants).**

**4. Colorants and Fragrances – Enhance the product's appearance and sensory appeal, contributing to consumer experience.**

# FOUNDATION CREAM

- ✓ FORMULATTION:-
- ► *LANOLIN* *2g*
- ► *PROPYLENE GLYCOL* *8g*
- ► *CETYL ALCOHOL* *0.5g*
- ► *STEARIC ACID* *10g*
- ► *POTASSIUM HYDROXIDE* *0.4g*
- ► *WATER* *79.10ml*
- ► *PERFUME AND PRESERVATIVE* *q.s.*

# Steps in Designing a Basic Formulation

1. **Define product purpose and target skin type.**
2. **Select active and supportive ingredients.**
3. **Determine concentrations and compatibility.**
4. **Perform lab trials (stability, pH, microbial, and sensory tests).**
5. **Prepare product documentation and labeling per regulations.**

# HOW TO READ A SUNSCREEN LABEL


Active ingredients, such as Zinc Oxide, is what protects the skin from UV rays.

Sunscreen helps prevent sunburn but the higher the SPF the more effective it is preventing sunburns.

Spread sunscreen evenly to cover face and body—including sensitive areas like ears, nose, eyebrows, and feet. Wait 15 minutes before sun exposure to ensure effectiveness.

Inactive ingredients help preserve, moisturize, condition, and smooth out the sunscreen to benefit and protect the skin.

www.mydayscreen.com

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50
Face

SHAKA SHAKE

BROAD SPECTRUM SPF 50

Tinted Mineral

**ANTHELIOS**
**LIGHT FLUID SUNSCREEN**
Universal tint, matte finish
100% mineral UV filters

Titanium Dioxide Sunscreen
**with CELL-OX SHIELD®**
**UVA/UVB Protection + Antioxidants**

Tested on sensitive skin. Fragrance-free
**WATER RESISTANT (40 MINUTES)**
1.7 FL.OZ - 50 ml

## Drug Facts

**Active ingredient** — **Purpose**
Titanium dioxide 11% ..... Sunscreen

### Uses
- helps prevent sunburn
- if used as directed with other sun protection measures (see ***Directions***), decreases the risk of skin cancer and early skin aging caused by the sun

### Warnings
**For external use only**

**Do not use** on damaged or broken skin

**When using this product** keep out of eyes. Rinse with water to remove.

**Stop use and ask a doctor if** rash occurs

**Keep out of reach of children.** If swallowed, get medical help or contact a Poison Control Center right away.

### Directions
For sunscreen use:
- shake well before use
- apply generously 15 minutes before sun exposure
- reapply:
  - after 40 minutes of swimming or sweating
  - immediately after towel drying
  - at least every 2 hours
- **Sun Protection Measures.** Spending time in the sun increases your risk of skin cancer and early skin aging. To decrease this risk, regularly use a sunscreen with a Broad Spectrum SPF value of 15 or higher and other sun protection measures including:
  - limit time in the sun, especially from 10 a.m. - 2 p.m.
  - wear long-sleeved shirts, pants, hats and sunglasses
- children under 6 months of age: Ask a doctor

### Other information
- protect the product in this container from excessive heat and direct sun

### Inactive ingredients
water, isododecane, C12-15 alkyl benzoate, dimethicone, undecane, triethylhexanoin, isohexadecane, styrene/acrylates copolymer, nylon-12, caprylyl methicone, butyloctyl salicylate, phenethyl benzoate, silica, tridecane, dicaprylyl carbonate, dicaprylyl ether, talc, dimethicone / PEG-10/15 crosspolymer, aluminum stearate, pentylene glycol, PEG-9 polydimethylsiloxyethyl dimethicone, iron oxides, alumina, polyhydroxystearic acid, phenoxyethanol, magnesium sulfate, propylene glycol, caprylyl glycol, aluminum hydroxide, PEG-8 laurate, stearic acid, disteardimonium hectorite, diethylhexyl syringylidenemalonate, tocopherol, propylene carbonate, cassia alata leaf extract, maltodextrin, benzoic acid, disodium stearoyl glutamate, PEG-9

### ☎ Questions or comments?
**1-888-LRP-LABO 1-888-577-5226**
Monday - Friday (9 a.m. - 5 p.m. EST)

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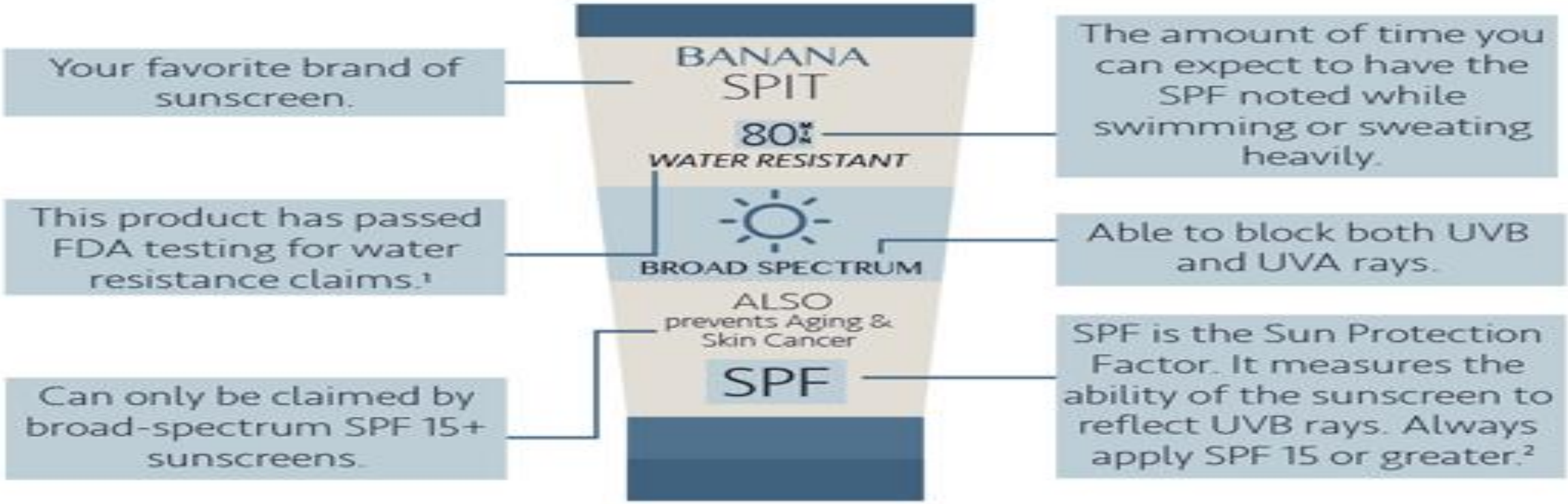
# SUNSCREEN LABELS EXPLAINED





References:

1. U.S. Food and Drug Administration. Consumer Updated: FDA Sheds Light on Sunscreens. Last Updated: May 27, 2016. http://www.fda.gov/forconsumers/consumerupdates/ucm258416.htm
2. Petersen B, Wulf HC. Application of sunscreen–theory and reality. Photodermatol Photoimmunol Photomed. 2014;30(2-3):96-101.


AboutDermatology


# COSMETICS PACKAGING LABELS ARTWORK



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## HAIR OIL

LONGER | STRONGER & THICKER HAIR

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**INGREDIENTS:**
Mineral Oil (49.8%),Vegetable oils including Amla extract 49.5%, Perfume TBHQ, C.I.- 12700, C.I.-61565, C.I.-12150

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**FOR FEEDBACK & SUGGESTIONS:**
Connect with our customer care executive at Vishal Mega Mart Pvt. Ltd. (Address as mentioned above) or call us at **011-43144141** or email us at **customercare@vishalwholesale.co.in**

Store in a cool place protected from sunlight

Type 3 Hair Oil. For external use only

Net Vol: **450 ml**

MRP ₹:
(Incl. of all taxes)

Batch No.:

MFD.:

Use Before:

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Angelina Naturals

# VITAMIN C

## FACIAL SERUM

*Experiance the best of the best in sensational skin.*

Hyaluronic Acid & Vitamin E

1 FL OZ
30 ML

**DIRECTIONS**
Wash your face and pat skin dry. If using tonner apply toner first. Apply with fingertips a small amount of serum evenly over entire face and neck and décolleté.

**FOR EXTERNAL USE ONLY**

**INGREDIENTS LIST:**
Water (Aqua), Sodium Ascorbyl Phosphate (Vitamin C), Hyaluronic Acid, Aloe Bar badensis Leaf exract*, Acrylates/C10-30, Alkyl Acrylates Crosspolymer, Tocopheryl Acetate (Vitamin E), Gingko Biloba Leaf extract, Olea Europea (Olive), Leaf extract, Aspalathus Linearis(Rooibos) Leaf Extract,Camellia Sinesis (White Tea) Leaf Extract, Camellia Sinensis (Green Tea) Leaf Extract, Simmndsia Chinese seed oil* (Jojoba Oil), Centella Asiatica extract*, Equisetum Arvance extract (Horsetail), Geranium Mercuatum Extract, taraxam Officinale Extract, Sodium Hydroxide, Phenoxythenol,Ethylhexyglycerin.
*Organic Ingredients.

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THANK YOU