



Our skin protects the body from the environment, maintains body temperature, controls water loss and prevents infection from germs. Therefore, it becomes a source of microorganisms that may affect our health. The most common microbe on the skin is *Cutibacterium acnes* (*C. acnes*). It can harm our skin by causing oiliness and acne.

*C. acnes* is a Gram-positive, rod-shaped bacterium that tolerates anaerobic conditions and lives in the sebaceous glands in the hair follicles. It produces fat and oil in the skin cells that makes the skin oily and causes inflamed acne. *C. acnes* also creates short-chain fatty acids called “Propionic acid” which helps the skin not lose too much water and inhibits pathogenic bacteria such as *Staphylococcus aureus*, *Staphylococcus epidermidis*. Propionic acid found in the digestive tract can help reduce inflammation in the human colon due to the inability to digest carbohydrates in food. It also helps prevent *Salmonella* in the large intestine.

Industrially, propionic acid helps reduce the growth of fungal and some types of bacteria. As a result, propionic acid is used as a preservative in animal feed and human food such as baked goods, as well as an intermediary in the production of synthetic flavorings, pesticides, pharmaceuticals and the production of Jarlsberg cheese, etc.

## Benefits of Acne-Causing Skin Microbes

References:

1. <https://www.labroots.com/trending/microbiology/25814/acne-causing-skin-microbes-beneficial>
2. <https://www.medicalnewstoday.com/articles/could-acne-bacteria-actually-help-skin-barrier-function>
3. [https://en.wikipedia.org/wiki/Cutibacterium\\_acnes](https://en.wikipedia.org/wiki/Cutibacterium_acnes)
4. <https://www.biomerieux-industry.com/en-us/node/765>
5. [https://en.m.wikipedia.org/wiki/Propionic\\_acid](https://en.m.wikipedia.org/wiki/Propionic_acid)



# Label Requirements for Sunscreen Products in Thailand

"Sunscreen product" refers to a product that contains UV filters to protect the skin or body parts from ultraviolet (UV) rays. And, this excludes sunscreen agents presenting in cosmetic products for other purposes such as to stabilize the products or to be as color additives.

"Ultraviolet A Protection Factor (UVAPF)" represents a value indicating the product ability to prevent skin darkening caused by UVA exposure.

"Water resistance" refers to the level of water resistance of sunscreen product after the product is applied and submerged in water for a total of 40 minutes.

"Sun Protection Factor or SPF" indicates the ability of product to prevent skin redness (erythema) caused by UV exposure.

"Protection grade of UVA (PA)" is the value established by the Japan Cosmetic Industry Association (JCIA) as an alternative to the UVAPF value.

"Very water resistance" indicates the level of water resistance of sunscreen product after the product is applied and submerged in water for a total of 80 minutes.

A label on sunscreen product must display the protection level or value against UV rays (SPF) or UVA rays (UVAPF) or water resistance as detailed below. In order that it is essential to conduct the test on sun protection and water resistance according to the International Organization for Standardization (ISO) or other international standard methods.

## 1. Indication of Sun Protection Value

1.1 Sun protection factor (SPF) of the screen product can be specified as follows.

If the test has not been done on the product, or the SPF result is lower than 6, do not display the word 'SPF' or other messages related to the sun protection levels.

Efficacy level	Measured SPF	Labelled SPF
Low	(6 - < 15) <small>From 6 to less than 15</small>	Labelled as the efficacy level or as the actual SPF
Moderate	(15 - < 30) <small>From 15 to less than 30</small>	
High	(30 - < 50) <small>From 30 to less than 50</small>	
Very high	(≥ 50) <small>From 50 and up</small>	Labelled as the efficacy level or as SPF 50 +

Efficacy level	Measured SPF	PA level
Low	(2 - < 4) <small>From 2 to less than 4</small>	PA+
Moderate	(4 - < 8) <small>From 4 to less than 8</small>	PA++
High	(8 - < 16) <small>From 8 to less than 16</small>	PA+++
Very high	(≥ 16) <small>From 16 and up</small>	PA++++

1.2 UVA protection (UVAPF) may be displayed as the following levels, symbols or values:

1.2.1 Based on JCIA standards (2012), the PA value can be shown as follows.

POST EXPOSURE mean UVA:UVB RATIO	INITIAL mean UVA:UVB RATIO			
	0.0 - 0.59	0.6 - 0.79	0.8 - 0.89	0.9 and over
0.0 - 0.56	No Rating	No Rating	No Rating	No Rating
0.57 - 0.75	No Rating	UVA ★★★	UVA ★★★	UVA ★★★
0.76 - 0.85	No Rating	UVA ★★★	UVA ★★★	UVA ★★★
0.85 and >	No Rating	UVA ★★★	UVA ★★★	UVA ★★★

1.2.2 According to Cosmetics Europe, the seal  can be displayed if the UVAPF value of the product is greater than or equal to one-third of the SPF value.

1.2.3 Based on the Measurement of UVA:UVB Ratios according to the Boots Star Rating System – 2011 revision, the UVA protection rating can be shown as follows.



2. Water resistance levels of sunscreen products can be displayed if they are tested using the international standard methods, and the level can be indicated as follows.





### Sophim Seminar, Malaysia

Sophim, France and Chemico Asia Pacific (Malaysia) Sdn. Bhd., organised a seminar on December 7<sup>th</sup>, 2023 at Chemico Asia Pacific (Malaysia) seminar room. The presentation included information about Phytosqualan and the new ingredient - Phytolive Fine (a natural alternative to plastic scrub beads) to upgrade the cosmetic products and shared about the uniqueness of scrub to improve excellent cleansing on the skin. The current market trends and success products of using Sophim ingredients were presented to the customers as well.



### DCAC Seminar, Vietnam

Chemico Vietnam Co., Ltd. and Daito Chemico Asia Color Cosmetics Center (DCAC) teamed up for a seminar 2023 on December 07<sup>th</sup>, 2023 with the topic “DREAM SHINE FESTIVE”. It was a chance to enhance your festive look with our makeup ingredients. The main contents of the seminar were all about the makeup trends 2024, introducing the key ingredients of the season, sharing experiences and guidelines to create formulations that help improve the quality of your products. And, all attendees could make their own festive makeup products with the advanced ingredients in the workshop part.

### Seppic Webinar, Myanmar

Seppic Inc. in collaboration with Chemico Myanmar Co.,Ltd. organized an interesting webinar under the topic “Beauty Party Webinar“ on December 14<sup>th</sup>, 2023. The webinar presented about enjoy music with cosmetics, main ingredients in mask, shower, lotion and cream formulations, formulation tips and information of raw materials. All prototypes were sent to the registered customer for testing before the webinar. Attendees were interesting in the prototypes and participated in Q&A and sample request section too.



# EVENT WEBSITE

# JAN 2024

## 31 Jan - 3 Feb

Food Pack Asia 2024, Bangkok, Thailand

<https://www.foodpackthailand.com/en/homepage/>

## 6-8 Feb

The 35th Gourmet & Dining Style Show Spring 2024, Tokyo, Japan

<https://www.gourmetdiningstyleshow.com/english/>

## 13-16 Feb

BioFach 2023, Nuremberg, Germany

<https://www.biofach.de/en>

## 19-23 Feb

Gulfood 2024, Dubai, UAE

<http://www.gulfood.com/>

## 22 Feb

DCAC Seminar, Chemico Asia Pacific (M) Sdn. Bhd., Penang, Malaysia

## 26-28 Feb

Beauty Asia 2024, Singapore

<https://beautyasia.com.sg/>

## 5-7 Feb

Beautyworld Japan Fukuoka, Fukuoka, Japan

<https://beautyworld-japan-fukuoka.jp.messefrankfurt.com/fukuoka/en.html>

## 13-15 Feb

Vitafoods India 2024, Mumbai, India

<https://www.vitafoodsindia.com/>

## 18-21 Feb

Global Beauty & Wellness Exchange, Bluffton, USA

<https://globalbeautyexchange2024-february.converve.io/>

## 20 Feb

DCAC Seminar, Chemico Asia Pacific (M) Sdn. Bhd., Kuala Lumpur, Malaysia

## 26-27 Feb

Professional Beauty India 2024, Bangalore, India

<https://professionalbeauty.in/pb-india>

