



VITAL-CHEM ZHUHAI CO., LTD.

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Technical Data Sheet

Natural Anti-bacterial agent- Stearyl Glycyrrhetinate (SG)

Description

Stearyl Glycyrrhetinate is the stearyl ester of 18-β-glycyrrhetic acid. 18-β-glycyrrhetic acid is obtained by hydrolysis of glycyrrhizinate extracted from the roots of licorice (Glycyrrhiza Glabra).

Since thousands of years licorice root is an established cure.

Also the food industry produces licorice out of these roots.

The cosmetic industry is using different licorice derivatives because of their skin soothing efficacy.

The multifunctionality of this active ingredient makes it very interesting for a number of cosmetic formulations, particularly for After Sun- and After Shave Products.

Appearance

White fine powder

Plant part used

Licorice root

Solubility

Soluble in mineral oil, polyethylene glycol, stearyl alcohol and petroleum jelly; very slightly soluble in water

INCI

Stearyl Glycyrrhetinate

Registration

CAS-No.....13832-70-7

EINECS No..... 419-580-5

JCIC No.....500133-41

Package

1kg aluminum foil bag lined a PE bag

10kgs in cardboard drum

Storage

Sealed and keep at low temperature, keep away from direct light

Safety

There is no any side reaction for frequent or continuous application.

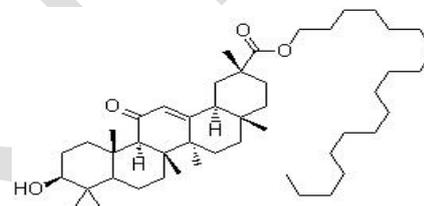
Shelf life:

48 months

Effects

antiphlogistic
soothing agent
antioxidans

Chemical Structure



Molecular Formula: C₄₈H₈₂O₄

Molecular Weight:723.17

Synonym:

Octadecyl

3-Hydroxy-11-oxoolean-12-en-29-oate

Technical Data

Stearyl Glycyrrhetinate.....min. 95.0 %

loss on drying.....max. 1.0 %

residue on ignition.....max. 0.10 %

heavy metalmax. 20 ppm

preservatives.none

Application

Licorice root contains many different ingredients. The main component with up to 15 % is glycyrrhizinic acid and their



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potassium, ammonium and calcium salts. Stearyl Glycyrrhetinate is the lipophilic representative from licorice derivatives. Due to this lipophilic character Stearyl Glycyrrhetinate has a particular affinity to skin lipids and therefore an improved efficacy as anti-irritant.

In general pentacyclic triterpenic acids like glycyrrhetic acid and their derivatives have an excellent anti-inflammatory efficacy.

The cosmetics industry takes advantage from this efficacy. The use in After Sun preparations is especially recommended.

A sun burn is a visible inflammatory response of the skin caused by UV irradiation, which occurs after intense sun exposure. During this inflammatory response, which is similar to a burn, an increased amount of messenger molecules (like histamine, prostaglandin, interleukin and serotonin) are released. These messenger molecules cause an aneurysm of blood vessels and induce erythema and swelling of the skin with burning and itching sensation.

This is one reason that especially in After Sun preparations anti-irritant active ingredients should be incorporated. The use of glycyrrhizin derivatives or similar effective actives is also essential for other applications like shaving or depilation products, where an irritation of skin of skin can occur.

In general glycyrrhizinic derivatives are highly recommendable for sensitive skin and skin that is prone to allergic reactions

Application concentration

Anti-Age creams.....	0.05 - 0.2 %
After Sun treatment.....	0.02 - 0.5 %
After Shave treatment.....	0.01 - 0.2 %
Sensitive Skin treatment.....	0.02 - 0.5 %

Incorporation

Stearyl Glycyrrhetinate can be incorporated in the oil phase of the formulation.

Toxicology

non-irritating
to skin and eyes
non-toxic and
non-cytotoxic
non-phototoxic
non-mutagenic

