

TECHNICAL DATA SHEET

Product Name: Chamomile Flower Powder 10:1

INCI Name: Chamomilla Recutita Flower Extract

CAS: 84082-60-0

Synonyms: German Chamomile, Ramenak, Titrica, Prstenak, Popadija, Bolivač, Milica-Trava, Milanka, Gamilica, Kamil-Tej, Kokošnjak, Carev Cvet, Gorčak, Sitna Bela Rada, Chamomilla recutita (L.) Rauschert, Matricaria recutita L., Matricaria suaveolens L.

Product Quality: The product is concentrated at a ratio of 10:1, meaning the amount of plant material used to obtain the extract is ten times greater than the final quantity of the extract. This ratio is used to emphasize the strength and effectiveness of the extract.

Country of Origin: China

Description: Chamomilla Recutita (Matricaria chamomilla), known as German Chamomile, is a fragrant annual herb from the family Asteraceae. It typically grows 15-60 cm in height, with bipinnate or tripinnate leaves and characteristic daisy-like flowers with white petals around a yellow center. It is native to Europe and Asia. In the cosmetic industry, chamomile extracts are valued for their soothing properties and are often found in skin and hair care products. The active principles of the extract include flavonoids (luteolin, apigenin, and quercetin heterosides), chamazulene, α -bisabolol, bisabolol oxide A and B, farnesol, bicyclic spiroethers, sesquiterpene lactones – proazulenes (matricin and matricarin), anthecotulid, coumarins, tannins, phenolic acids (chlorogenic acid), essential oil (0.3%-1.5%). Bisabolol is a natural, monocyclic, unsaturated sesquiterpene alcohol that occurs in two configurations, α and β . α -bisabolol has significant soothing effects, alleviating skin irritations and redness. The extract is yellowish-brown, water-soluble, and glycerin-soluble.

Benefits:

• **Soothing and Anti-Inflammatory Properties:** Chamomilla Recutita is renowned for its soothing and anti-inflammatory properties. These properties stem from its bioactive compounds, such as bisabolol, matricin, flavonoids, and sesquiterpenes. Bisabolol is

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known for its calming effect on the skin, reducing redness and irritation by inhibiting the release of inflammation-causing molecules like prostaglandins and leukotrienes. Flavonoids and sesquiterpenes in Chamomilla Recutita also contribute to its anti-inflammatory properties by reducing oxidative stress and inhibiting enzymes such as cyclooxygenase (COX) and lipoxygenase (LOX), which are key in the inflammatory process. They also help reduce the production of inflammatory cytokines.

- **Antioxidant Properties:** Chamomile contains powerful antioxidants, including flavonoids and terpenoids. The antioxidants in chamomile help protect cells from damage caused by free radicals, contributing to skin health, reducing inflammatory processes, and preventing signs of aging. This makes chamomile a valuable ingredient in cosmetics, especially in facial care products aimed at maintaining a youthful appearance and skin health.

- **Healing Ability:** Chamomile extract accelerates the skin regeneration process. It can be used in products intended for the treatment of minor cuts, bruises, and sunburns, helping the skin to recover faster.

- **Antimicrobial Action:** Chamomilla Recutita has antimicrobial properties. It can help eliminate bacteria and deeply cleanse pores without stripping the skin of its natural oils.

- **Improves Complexion:** Regular use of products containing chamomile can improve the complexion. It has a mild bleaching effect that can naturally lighten the skin.

Usage: Used for making water-glycerin extracts, glycerites, tinctures, and other cosmetic semi-finished products. Recommended concentrations range from 1-10%.

Storage/Shelf Life: Stable when stored in a dry, cool place. Shelf life is 2 years.

Animal Testing: The substance has not been tested on animals.

GMO: Non-GMO

Vegan: Does not contain animal-derived components.

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