

PF SOYPOL-SP

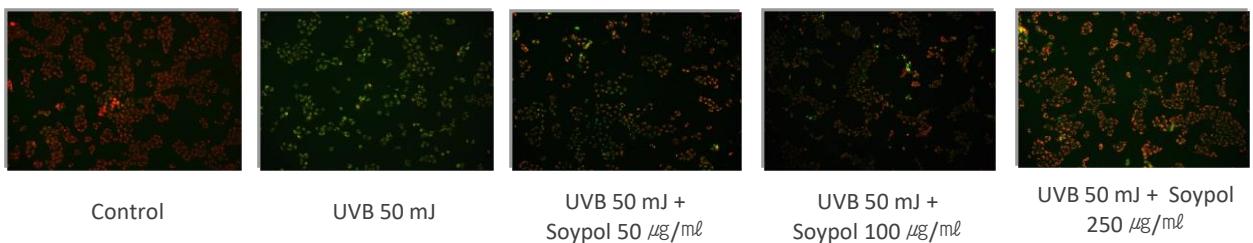
INCI NAME : WATER / BUTYLENE GLYCOL / NATTO GUM / PHENOXYETHANOL / ETHYLHEXIL GLYCETIN

GENERAL DESCRIPTION FOR RAW MATERIAL

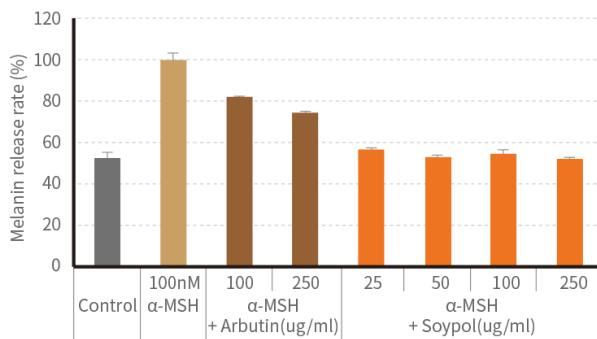
The soybean in the U.S., also called the soya bean in Europe (*Glycine max*), is a species of legume native to East Asia, widely grown for its edible bean which has numerous uses. The plant is classed as an oilseed rather than a pulse by the UN Food and Agriculture Organization (FAO). The main producers of soy are the United States, Brazil, Argentina, China and India. The beans contain significant amounts of phytic acid, alpha-linolenic acid, and isoflavones. Together, protein and soybean oil content account for 56% of dry soybeans by weight (36% protein and 20% fat). The remainder consists of 30% carbohydrates, 9% water and 5% ash. Soybeans comprise approximately 8% seed coat or hull, 90% cotyledons and 2% hypocotyl axis or germ.

EFFICACY

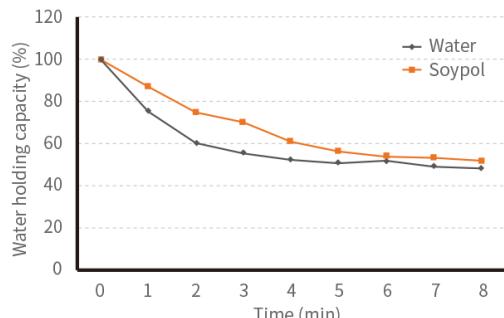
Photo protection (JC-1 staining : UV B)



Whitening effect



Moisturizing effect



TECHNICAL INFORMATION

Processing & Dosage

The recommended dosage is 1.0 ~ 5.0%. PF SOYPOL-SP is a water-soluble active ingredient. In order not to disturb the structure and conformation of the actives, it is recommended to incorporate it into formula at the last phase of the formulation at about 40°C.

Storage & Shelf life

PF SOYPOL-SP should be stored at room temperature in a tightly closed and lightproof package. If stored in these appropriate conditions the shelf life is at least 24 months. Once the original packing is opened, it is highly recommended to use at once.

Safety information

Thanks to these nutritional and functional facts, soybean products were included in the world's top 5 healthiest foods in magazine 'Health (2006)': Due to dozens of studies showing soy is good for your heart; the FDA even allows certain soy products to have a heart-healthy claim on their labels. A number of epidemiological studies have suggested that consumption of soybeans and soy foods is associated with lowered risks for several cancers including breast, prostate, and colon, and cardiovascular diseases (Anderson et al., 1998; P.C. Butler et al., 2007; Messina, 1995; Peterson & Barnes, 1991, 1993) and improves bone health (Bhathena & Velasquez, 2002). Furthermore, some studies have shown that a diet rich in soy can reduce breast cancer risk (Messina, 1999a, 1999b). Based on its food use, PF SOYPOL-SP is believed to be a safe material for cosmetic application.

SPECIFICATION

PRODUCT INFORMATION

Appearance	Colorless or slightly yellow	TRADE NAME	PF SOYPOL-SP	INCI Key Index
Odor	Characteristic slight odor	INCI NAME	COMPOSITION (INCI Key Index)	A : Greater than 50%
pH (Neat)	6.0 ~ 7.0	WATER	A	B : Greater than 25% but less than or equal to 50%
Specific Gravity (d20/20)	1.003 ~ 1.010	BUTYLENE GLYCOL	C	C : Greater than 10% but less than or equal to 25%
Refractive index	1.003 ~ 1.010	PHENOXYETHANOL	F	D : Greater than 5% but less than or equal to 10%
Heavy Metals	Not more than 10ppm	NATTO GUM	F	E : Greater than 1% but less than or equal to 5%
Total bacterial count	Not more than 100cfu/g	ETHYLHEXIL GLYCETIIN	G	F : Greater than 0.1% but less than or equal to 1%
		STANDARD PACKAGE	20KG	G : Less than or equal to 0.1%



The content of this document was established with utmost possible care.

However, we reserve the right to add the information, to correct or to delete it without prior notice.

22, Osongsaeengmyeong 2-ro, Osong-eup, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, 28162, KOREA

E bioland@hyundaibioland.co.kr

H www.hyndaibioland.co.kr

T +82-43-249-6720

F +82-43-249-6709