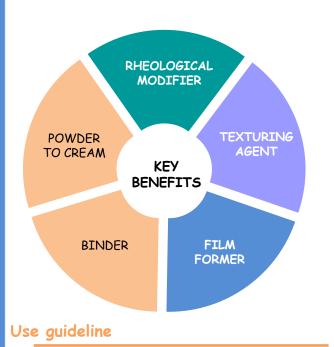
# COMPOSITION INCLINATE ORYZA SATIVA (RICE) STARCH



#### • Swells in water

- No neutralisation
- Yields translucent to opaque gel
- Cold and heat processable

• Heat at 90°C to develop suspensive properties

• Predisperse into polyols to prevent lumps formation and obtain fast swelling in water. Add the premix in water under low shear (500 tr/min).

• Small addition of MAKIGREEN SWELL RICE into a formulation containing MOISPRAY C gives a soft and silky touch

Use levels: 0,5-5%

Pourable emulsion

Use level: 0,5-7%

Pourable colored emulsion:

No pigment grinding

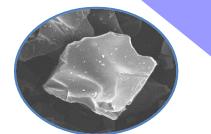
No solvent

Use level: 0,5-7%

Emulsion gel

Use level: 0,5-7%

**Powder to cream formulations:** Prepare a gel of MAKIGREEN SWELL RICE. Add the hydrophobic treated powders under stirring. Stir until a powder is formed. The mixing time has to be optimized for each formulation and type of mixer. Over-mixing may lead to the production of a cream. Use level: 3-4%



MAKIGREEN

SWELL RICE

### Chemical and physical properties

- White powder
- Biopolymer obtained from rice
- Waxy pregelatinised starch
- Biodegradable
- $\bullet$  Fine particle size between 2 and 8  $\mu m$
- Smooth surface and polyhedral shape
- Bulk density  $\approx 0,4-0,5$  g/cm<sup>3</sup>
- pH (7% in water)≈ 5,5-7,5
- 0,5% of proteins

#### Formulation

- pH: stable over a pH range of 4 to 10
- Heat: stable up to 100°C
- Freeze-thaw : stable
- Salts: compatible
- Alcohols: up to 10%

• **Surfactants:** compatible with polyglycerol esters of fatty acids, sucrose esters, amino acid based surfactants, incompatible with polysorbate

• Untreated and treated pigments: compatible with all DAITO 's treatments

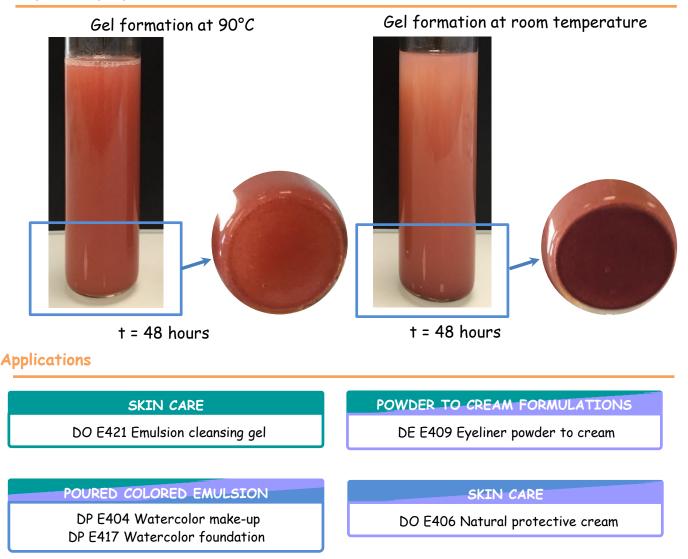
- Film formers: compatible with acrylic and cellulose derivatives
- Pearls, glitters : compatible
- Beads : compatible with CELLULOBEADS, MAKIBEADS

#### **Cosmetic benefits**

- Forms a moisture retention film on the skin
- Provides transfer resistance
- Promotes partial substitution of waxes and oil to give stable lighter textures
- Gives a soft and silky touch
- Conditioning and substantive action

## MAKIGREEN SWELL RICE

Suspensive properties



### Safety and regulatory information

Material Safety Data Sheets are available for all DAITO KASEI products.

**REACH**: Starch derivatives are exempted from registration.

Oryza sativa (rice) starch is listed on major chemical inventories such ICID, CosIng, TSCA, IECIC2015, KCID, AICS, DSL.

# For additional information Please contact:

HEAD OFFICE DAITO KASEI KOGYO Co., LTD 1-6-28 Akagawa, Asahiku Osaka - JAPAN ☎ : 81 6 6922 1632 墨 : 81 6 6921 9562 DAITO KASEI CHINA 6F/room 612 555 Wuding road Jing An District Shangai, CHINA 200040 🕾 : +86 21 32 53 25 16

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