



VERDANT
A SAMYANG COMPANY

SULFATE-FREE PEARL with **MACKPEARL® SFP**

For Personal Care Formulations

COLD - MIX LIQUID PEARLS

MACKPEARL® SFP-104 and **MACKPEARL® SFP-106** are liquid pearling agents designed for easy dispersion at ambient temperatures. Both products should be added slowly to a batch with moderate agitation to achieve attractive pearlescence and stability, with usage levels varying from 3 to 12% depending on the desired pearl effect.

BENEFITS

FOR FORMULATORS:

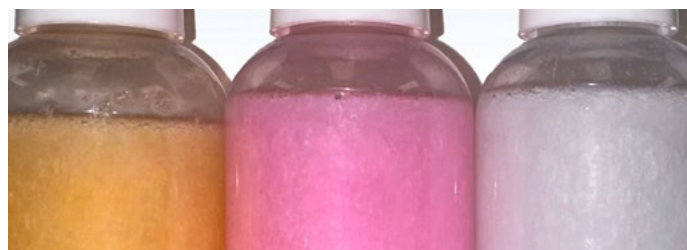
- Cold Blending
- Time & Energy Savings
- Easy Dispersibility

FOR CONSUMERS:

- Sulfate-Free
- Amide-Free
- Luxury Appearance

TYPICAL PROPERTIES

MACKPEARL®	SFP - 104	SFP - 106
Appearance at 25°C:	Pearlised Viscous Liquid	Pearlised Viscous Liquid
Solids, %:	42.0 - 46.0	47.0 - 50.0
pH at 20°C: (10% aq.)	6.0 - 8.0	6.0 - 8.0
INCI:	Glycol Stearate, CAPB & AOS	Glycol Distearate, CAPB & AOS



PEARLED HAND SOAP FORMULATION

Ingredients	Function	% w/w	Process
Water	Carrier	q.s. to 100	Charge water, and then add MACKAM® 50ULB with mixing
C14 - 16 Olefin Sulfonate	Primary Foamer	25	
MACKAM® 50ULB	Secondary Surfactant	8 - 11	Add AOS with mixing until homogeneous
MACKPEARL® SFP-104 / SFP-106	Pearlizing Agent	3 - 5	Slowly add MACKPEARL® SFP product
Citric Acid, dilute	pH adjuster	As needed	Adjust pH as needed.
Preservative	Preservative	As needed	Add dye, fragrance & preservative
Dye & Fragrance	Aesthetics	As desired	
Sodium Chloride	Viscosity Modifier	As needed	Adjust viscosity with sodium chloride

DISCLAIMER

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