

Leucidal® SF Max

Formulation Guidance

Manufacturing Procedure (Laboratory Scale)

Emulsion Systems:

1. Incorporate Leucidal® SF MAX near the end of the formulating process and after the formulation has cooled to below 40°C.

Surfactant Systems:

1. Leucidal® SF MAX has excellent compatibility in cationic and nonionic surfactant systems when added towards the end of the formulating process after the formulation has cooled to below 40°C.
2. In anionic surfactant systems, add Leucidal® SF MAX after the anionic surfactant. Incorporate a thickening agent if a loss in viscosity is observed.

Gel/Aqueous Systems:

1. Leucidal® SF MAX has excellent compatibility in cationic and nonionic gel/aqueous systems when added towards the end of the formulating process after the formulation has cooled to below 40°C.
2. The cationic nature of Leucidal® SF MAX makes the main formulating concern incompatibility with highly anionic thickeners. In anionic systems, a change in order of addition may best resolve incompatibility. See Formulation Advice below for more information on specific anionic thickeners.

Application Ideas:

1. Leucidal® SF MAX is suitable for O/W emulsions, W/O emulsions, and aqueous systems.

Formulation Advice:

Leucidal® SF Max

Code: M15019MAX

INCI Name: Lactobacillus Ferment

CAS#: 1686112-36-6 (or) 68333-16-4

EINECS#: N/A (or) N/A

Suggested Use Levels: 2.0 - 4.0%

Solubility: Water Soluble

pH Stability: 3 - 7



Use Level	Our best recommendation is to start with 4.0% Leucidal® SF MAX if no other antimicrobial active or preservative system is present.
Incompatibility	When using Xanthan Gum: <ul style="list-style-type: none">• Charge water, add Leucidal® SF MAX into water and allow to mix until uniform.• Pre-disperse xanthan gum in polyol and add.
	When using Hyaluronic Acid (Low/High MW): <ul style="list-style-type: none">• Charge water, add Leucidal® SF MAX and allow to mix until uniform.• Under high shear mixing, add hyaluronic acid.
Improve Clarity	When a lipophilic peptide such as Leucidal® SF MAX interacts with an anionic material, haze may be observed. Add a solubilizer to improve clarity.