PhytoCide Lichen
Formulation Guidance

PhytoCide Lichen
Code: M16008
INCI Name: 2,3-Butanediol & Cladonia Rangiferina Extract
CAS#: 513-85-9 & 92346-91-3
EINECS#: 208-173-6 & 296-176-3
Origin: Botanical
Suggested Use Levels: 1.0 - 2.0%
Solubility: Water Soluble
Appearance: Clear to Slightly Hazy & Liquid Light Yellow to Amber
pH Stability: 3 - 8

Manufacturing Procedure (Laboratory Scale)

Emulsion Systems:

1. Incorporate PhytoCide Lichen into the formulation during the cooling phase at a temperature of <25°C.

Surfactant Systems:

1. PhytoCide Lichen is nonionic and is compatible in anionic, cationic and amphoteric systems.
2. If viscosity loss is experienced, a thickener should be increased or added to aid with the loss.

Gel/Aqueous Systems:

1. PhytoCide Lichen has excellent compatibility in anionic, cationic and nonionic gel/aqueous systems when added towards the end of the formulating process after the formulation has cooled to below 25°C.

Application Ideas:

1. PhytoCide Lichen is suitable for O/W emulsions, W/O emulsions, and aqueous systems.



Formulation Advice:

Use Level	Our best recommendation is to start with 2.0% PhytoCide Lichen if no other antimicrobial active or preservative system is present.

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