



Scalp Treatment Serum with Intelimer® 13-1 Polymer Formulating Guide No. H007

Description

Hair Serum with Intelimer 13-1 polymer is designed to provide nourishment, conditioning and moisturizing to the scalp. Intelimer 13-1 polymer is used as an oil phase thickener to provide a non-drip formulation.

Procedure

1. Combine all the ingredients in the below order except for the preservative while stirring.
2. Heat the mixture to 60 °C while stirring.
3. Wait until the Intelimer IPA 13-1 is dissolved completely then start to cool.
4. Add preservative once the mixture has cooled to 45 °C. Continue to cool to desired temperature and package.

Note: To improve hand clarity of Intelimer anhydrous gel 0.1- 0.5% of PEG-4 is recommended. The PEG-4 can be added along with the other ingredients while stirring and heating.

Warning: Higher amount of PEG-4 is not recommended due to the fact higher level can cause the formulation to become unstable.

Typical Properties

(not to be used as specifications)

Appearance	Anhydrous gel
pH	N/A
Stability	Passed 4 month 50 °C
Viscosity (cPs)	Anhydrous gel

Ingredient / Trade Name	INCI Designation	%W/W	Function	Supplier
Mineral Oil Drakeol® 7LT	Mineral Oil	63.5	Conditioner	Penreco
Jojoba Oil	Simmondsia Chinensis (Jojoba) Oil	16.0	Conditioner	Jeen Intl
Sawflower Oil	Carthamus Tinctorius (Sawflower) Oil	16.5	Essential oil	Jeen Intl
Avocado Oil	Persea Gratissima (Avocado) Oil	0.3	Essential oil	Desert Whale
Tea Tree Oil	Melaleuca Alternifolia (Tea Tree) Leaf Oil	0.3	Essential oil	Desert Whale
Evening Primerose Oil	Oenothera Biennis (Evening Primerose) Oil	0.2	Essential oil	Desert Whale
Intelimer IPA 13-1	Poly C10-30 alkyl acrylate	3.0	Thickener	Air Products
LiquaPar® Oil	Isopropylparaben (and) Isobutylparaben (and) Butylparaben	0.2	Preservative	ISP

For Samples or More Information

If you would like additional information or technical assistance in preparing specific formulations, write or call Air Products and Chemicals, Inc.

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