

Technical Bulletin

Amylomer™ HA-NI (Sodium Hydroxypropyl Oxidized Starch Succinate)

Derived natural biodegradable water-soluble Hair and Skin softener

Description of the product

Derived natural biodegradable hair and skin texture agent. Amylomer™ HA-NI is a liquid non-ionic. It is derived from vegetable polysaccharides from food grade quality starch and biodegradable. Improves combability and manageability of hair without loss of volume. Creates a natural, soft and well hair texture feel.

INCI

Aqua; Sodium Hydroxypropyl Oxidized Starch Succinate; Sodium Lactate; Urea; Lactic Acid; Glycerine; Sodium Levulinate; Sodium Anisate

Chemical and physical properties

Appearance	Light yellow
Molecular weight	~ 1000 kDa
Dry content	40,5% ± 1%
Gardner colour	< 2
Viscosity 20°C, Brookfield	200 - 600 mPas, (Sp.2/30rpm)
pH-value DIN 19268	~ 4,6 - 5,2

Intended use

Hair and Skin Conditioning, Humectant, Film Forming

Advantages

- For softening hair and skin
- For use in rinse-off and leave-on conditioner
- Outstanding Conditioning effect on fine hair
- No evidence of build-up, hair remains easy to style
- Increases shine
- Compatible with most other cosmetic ingredients except detergents
- The non-ionic charge results in soft film forming properties easy to wash off
- Intensive film building properties due to additional hydroxypropyl groups
- Supports curl retention
- Readily biodegradable
- Low aquatox

Packing- Storage-

Store at temperatures between 5°C-25°C in original closed package. Amylomer™ HA-NI is available in 22kg pails, 210 kg drums and IBC's.

Properties

Amylomer™ HA-NI is a liquid potato-based conditioner with readily biodegradability and low aqua toxicity. It Improves the hold and grip of the hair (figure1). It improves and gives moisture and texture for skin and hair (figure 2).

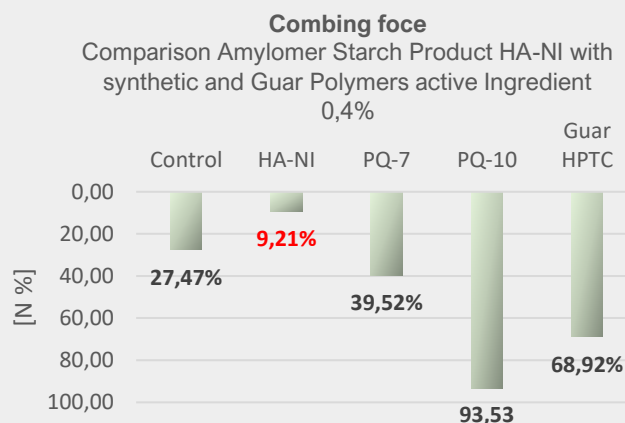
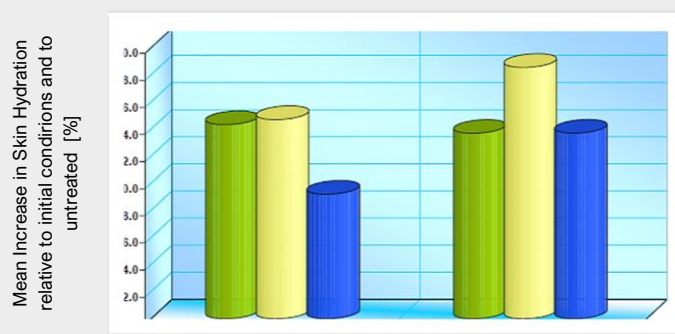


Abb. 1: Combing force results in dry hair

European bleached hair, basis test formulation: 9% SLES/ 3% CAPB/ Preservative / 0,4% active cationic polymer



	After 7 days	After 14 days
1,5% Amylomer™ HA-NI	14.7	18.5
Placebo	9.2	13.7

Application

Amylomer™ HA-NI is used as a conditioning agent for hair and skin:

- Shampoos
- Conditioner
- Body washes
- Liquid soaps
- Body Lotion
- Cleansing

Hazardous goods classification

Information concerning

- classification and labelling according to
- regulations for transport of chemicals
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicological and ecotoxicologica

is given in our safety and technical data sheets

Guidline formulations

Conventional Shampoo for European hair

INCI	% w/w
Aqua	57.51 %
Sodium Laureth Sulfate, 27%	28.00%
Cocamidopropyl Betaine	11.00%
Sodium Benzoate	0.30%
Potassium Sorbate	0.20%
Sodium Hydroxypropyl Oxidized Starch Succinate	1.50%
Citric Acid	0.49%

Preparation:

Blend ingredients in the given order.

Adjust pH-value with citric acid to pH 4.3-4,7.

Remarks: Viscosity (Haake, 20°C, RV4, 10 rpm): 3600 - 6300 mPas.

Natural Shampoo for European hair

INCI	% w/w
Aqua	58.50%
Coco-Glucoside	23.00%
Sodium Coco Sulfate	8.00%
Cocamidopropyl Betaine	6.00%
Sodium Benzoate	0.30%
Potassium Sorbate	0.20%
Sodium Hydroxypropyl Oxidized Starch Succinate	1.50%
Citric Acid	1.50%

Preparation:

Blend ingredients in the given order.

Adjust pH-value with citric acid to pH 4.3-4,7.

Remarks: Viscosity (Haake, 20°C, RV5, 10 rpm): 11000-26000 mPas.

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