

SYN[®]-HYCAN

Firming and remodeling by Hyaluronan from within

CHARACTERISTICS

Introduction SYN[®]-HYCAN is a patented tripeptide that helps fight skin sagging by boosting the hyaluronan content in the skin. This tripeptide also increases the expression of decorin and lumican - two important proteoglycans that support the formation of new collagen fibrils, increasing their quality and strength with a visibly re-modeled effect. SYN[®]-HYCAN is an opalescent to hazy, colourless to yellowish, viscous liquid.

Composition

INCI name	Content	CAS No.	EINECS/ELINCS
Tetradecyl Aminobutyroylvalylaminobutyric Urea Trifluoroacetate	0.1-1%	934368-60-2	none
Glycerin	>50%	56-81-5	200-289-5
Aqua	25-50%	7732-18-5	231-791-2
Magnesium Chloride	0.01-0.1%	7786-30-3	232-094-6

General Properties

- Appearance: Opalescent to hazy, colorless to yellowish, viscous liquid.

FORMULATING

Solubility

- SYN[®]-HYCAN is miscible with water.

Incorporation

- SYN[®]-HYCAN is provided as a glycerin-based aqueous solution and can be incorporated into the aqueous phase of a cosmetic formulation. It can be processed either warm (for maximum 2 hours at 80°C) or cold. The incorporation at the end of the production process at T < 40°C is still recommended.

Compatibilities

- Compatible with up to 50% ethanol.

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- In general, SYN®-HYCAN shows a very good compatibility with all groups of raw materials like emulsifier systems, emollients and waxes, preservatives, hydrocolloids, sunscreens, detergents and other commonly used substances.
- Recommended pH of the final formulation: 3.0 - 5.5, it can be adjusted with commonly used neutralizing agents.
- However, SYN®-HYCAN usually precipitates if diluted with excess of water. This precipitate does not have any influence on the activity of SYN®-HYCAN and disappears by adding an oil phase.
- Nevertheless, the compatibility always depends on the complete final formulation. So the formulator has to monitor potential incompatibilities during the time of storage with each formulation.

VARIOUS

Storage

SYN®-HYCAN may be stored for at least 36 months from the date of manufacture in the unopened original container protected from light in a clean place and at a temperature between 2 and 8°C. The 'Best use before' date is printed on the label. Keep package tightly closed. Once opened, use contents quickly. To avoid secondary microbial contamination, following opening, containers should be handled with special care. For safety information please refer to the Safety Data Sheet (SDS).

Use level

For skin care preparations a concentration up to 2.5% SYN®-HYCAN is recommended.

Patent Information

DSM Nutritional Products Ltd. owns patents encompassing this product.

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