

# HYDAGEN® HCMS-LA

## Labeling information

### INCI name(s)

Chitosan Lactate

## Registrations

Ingredient	CASR-No.	EINECS/ELINCS-No.	others
	9012-76-4	polymer	
	50-21-5	200-018-0	
	122-99-6	204-589-7	
	99-76-3	202-785-7	
	94-26-8	202-318-7	
	120-47-8	204-399-4	
	94-13-3	202-307-7	

## Officially listed in / Quality conforms to

JCIC:	Chitosan (Ingredient Code: 523078-42)
	Lactic Acid (Ingredient Code: 001468)
	Purified Water (Ingredient Code 001370-41)

## Product properties

### Appearance

HYDAGEN® HCMS-LA is a clear viscous, light yellow aqueous solution of 3 % chitosan and 1.2 % lactic acid.

### Example of use

HYDAGEN® HCMS-LA is a cationic film former of marine origin. It is suitable for use as a fixative polymer in styling products, such as mousses, setting lotions and pump sprays. In addition, HYDAGEN® HCMS-LA exhibits excellent repair effects on hair, and can be used in hair conditioning lotions to treat split ends. The pH-value of the final formulation have to be less than 6.0. HYDAGEN® HCMS-LA is not sensitiv regarding high temperatures (80°C) and can be added before the emulsification to the hot water phase. The product is incompatible with all anionic combinations and limited with systems which have to be neutralized with alkali.

Usual dose of use: 10 - 35 %

Optimal pH - value: between 3,5 - 5,5

## Characteristic values

The specifications stated in the paragraphs 'Quality control data' and 'Additional product descriptive data' finally and conclusively describe the properties of the Product.

### Quality control data

(Data which is used for quality release and is certified for each batch.)

Appearance	Conforms to standard	Q-A 1000.0
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Odour	Conforms to standard	Q-A 1008.0
Dry substance	> 4 %	DGF G III 1 mod.
pH-value	5 - 6	DGF H III 1 mod.

#### **Additional product descriptive data**

(Data which is proven statistically but not determined regularly.)

Molecular weight	50.000 - 1.000.000 D	GPC
Nitrogen (kjd.), %	0,2 - 0,3	Q-C 2037.0
Degree of deacetylation, %	> 80	NMR

#### **Storage and transportation**

When stored in unopened original packaging in a dry room at temperatures of less than 30°C, Hydagen® HCMS-LA remains stable for at least 12 months. Hydagen® HCMS-LA is preserved with 0,35% Sharomix 445.

**Revision-No.** 2-04.2001

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Cognis does not guarantee the suitability of a product for a user-specific purpose.

