Hydrolyzed Keratin Liquid

HydroTide® | HKP-LK10C / HKP-LK20C / HKP-LK30C

Product overview

A water-soluble protein hydrolysate derived from duck feather, for use in hair care and skin care formulations.

Parameter	Shared product information
INCI ingredient name(s)	Hydrolyzed Keratin
Raw material origin	Duck feather
Physical form	Liquid
Molecular weight (description)	Below 1000 Da

Grade designations

Parameter	HKP-LK10C	HKP-LK20C	HKP-LK30C
Nominal concentration	10%	20%	30%

Nominal concentration is a product designation; it is not a guaranteed protein or dry-residue value. Declared composition ranges are listed separately.

Grade specifications

Parameter	HKP-LK10C	HKP-LK20C	HKP-LK30C
Appearance	Light yellow to brown liquid	Yellow to brown liquid	Clear to slightly hazy amber liquid
Odour	Characteristic		
Nitrogen content	1.4% min.	2.8% min.	4.1% min.
Dry residue	10% min.	20% min.	28% min.
Ash content	2% max.		2.5% max.
pH value	5.0-7.0	4.0-7.0	
Heavy metals (as Pb)	10 ppm max.		
Arsenic (As)	1 ppm max.		
Total bacteria	<100 cfu/g		
Harmful bacteria	Negative		

A slight sediment may occur. HKP-LK20C: confirm the agreed batch acceptance criteria before purchase.

Composition

Ingredient	CAS number	HKP-LK10C	HKP-LK20C	HKP-LK30C
Hydrolyzed Keratin	69430-36-0	5-15%	15-30%	25-35%
Water	7732-18-5	85-95%	70-85%	65-75%

Declared concentration ranges are not exact batch measurements or simultaneous formulation targets. Do not sum the upper bounds. Water is part of the liquid formulation.

Applications and formulation guidance

Primarily hair care and skin care formulations, including shampoo, conditioner, body lotion and shower gel.

Suggested addition levels by grade

Application	HKP-LK10C	HKP-LK20C	HKP-LK30C
Hair care shampoo	0.5%-5%		0.1%-2%
Hair care conditioner	1%-10%		0.2%-5%
Pre-Treatment for Hair-Coloring	2%-10%		0.2%-5%
Pre-Treatment for Hair-Perming	2%-10%		0.2%-5%

Suggested levels are formulation starting points. Validate compatibility, stability and finished-product safety in the intended formulation.

Packaging and storage

Item	Details
Packaging	20 kg net plastic drum
Storage	Keep containers tightly closed in a cool, dry place, away from heat and direct sunlight. Protect from contamination and use clean containers.

Technical information

Read the corresponding Safety Data Sheet before handling. Product specifications describe the supplied ingredient; they do not establish suitability or regulatory clearance for a particular finished product. Contact Protide for technical assistance.