

# QUERATRIX SB

**CHEMICAL NAME:** Creatine complexed with hydrolyzed keratin

INCI name <sup>(1)</sup>	CAS number <sup>(1)</sup>	EINECS number <sup>(1)</sup>
Hydrolyzed Keratin	69430-36-0 / 73049-73-7	274-001-1 / ---
Creatine	57-00-1 / 6020-87-7	200-306-6 / ---
Aqua	7732-18-5	231-791-2
Tetrasodium EDTA	64-02-8	200-573-9
Sodium Benzoate	532-32-1	208-534-8
Potassium Sorbate	590-00-1/ 24634-61-5	- / 246-376-1

(1) Reference: (<http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.simple>), CosIng, Europe.

INCI name <sup>(2)</sup>	CAS number <sup>(2)</sup>	EINECS number <sup>(2)</sup>
Hydrolyzed Keratin	69430-36-0 / 73049-73-7	274-001-1 / ---
Creatine	57-00-1 / 6020-87-7	200-306-6 / ---
Water	7732-18-5	231-791-2
Tetrasodium EDTA	64-02-8	200-573-9
Sodium Benzoate	532-32-1	208-534-8
Potassium Sorbate	590-00-1/ 24634-61-5	- / 246-376-1

(2) Reference: Personal Care Products Council. Available at: <http://webdictionary.personalcarecouncil.org/jsp/Home.jsp>, USA.

## INTRODUCTION

**QUERATRIX SB** is a solution of hydrolyzed keratin enriched with creatine. Soluble in water, it is easily incorporated in hair and nail formulations.

Due to its low molecular weight, **QUERATRIX SB** is able to easily penetrate hair cuticle. It restores, hydrates and imparts gloss and softness to damaged hair.

## SPECIFICATION

Appearance (25°C)	: Fluid liquid, limpid opalescent
Color	: Amber to ocher
Odor	: Characteristic
pH 100% (25°C)	: 3.5 – 5.5
Density (25°C)	: 1.02 – 1.06 g/ml
Refractive Index (25°C)	: 1.33 – 1.37
Dry Residue (105°C, 4h)	: 7.0 – 15.0 %
Moulds	: Max. 100 col/g
Bacteria	: Max. 100 col/g

## OTHER AVAILABLE DATA

Solubility	: Soluble in water, propylene glycol and glycerin
Identification	: a) color reaction – positive to ninhidrin b) spectroscopy UV – according to standard
Preservation	: Potassium sorbate (0.2%) and sodium benzoate (0.1%)

QUERATRIX SB - Page 1 of 2

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## APPLICATION

**QUERATRIX SB** is specially indicated in formulations for hair and nails treatment. Hair and nails appearance and vitality depend on the integrity, moistness and electric charge distribution located along the keratinized fibers. Preparations containing **QUERATRIX SB** will help restoring regions where peptidic chain has been damaged by aggressive agents.

## SUGGESTED DOSAGE

- Shampoos: 1 to 3%
- Conditioners and hair straighteners: 2 to 5%
- Capillary reconditioners: 3 to 6%
- Nail care formulations: 2 to 5%

## STORAGE

Store dry, tightly closed and protected from light.

NOTE: During storage it may get turbid and/or precipitation may occur, but this will not invalidate the complex.

## SHELF LIFE

Twenty four (24) months from manufacturing date.

## REFERENCES

1. *CosIng*, Europe  
(<http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.simple>)
2. Personal Care Products Council; *Online International Cosmetic Ingredient Dictionary & Handbook (wINCI)*; Copyright© 2008 Personal Care Products Council. Available at: <http://webdictionary.personalcarecouncil.org/jsp/Home.jsp>, USA. Accessed in: October 14, 2022.