

## Silk Protein, Hydrolyzed

### Specification Sheet

**Description:** Natural protein obtained from natural silk noils (fibers, fibroin) from the cocoon of the silk worm (*bombyx mori*). Has excellent moisture binding properties & silky-smooth feel. The exceptional purity of silk is shown by the clarity of its film and low ash content. Protein content about 10%. Gluten-free.

**CAS:** 7732-18-5, 96690-41-4

**INCI Name:** Water, Hydrolyzed Silk

**Composition:** Water, hydrolyzed silk, benzyl alcohol, potassium sorbate, sodium benzoate

**Appearance:** Clear, amber liquid, characteristic, mild odor.

**Benefits:**

- Works especially well to add luster and shine, body, and manageability to hair.
- On the skin care it is known for its high moisture binding capacities providing a protective barrier.
- It is an amphoteric protein type and is compatible with cationic, anionic, and non-ionic materials.

**Use:** Can be added to formulas as is; add to water-phase of formula or at the end of the formula. Recommended use level 0.5 - 10%. For external use only.

**Applications:** All kinds of hair care products including shampoos, hair conditioners, hair balms, hair pomades and skin care products including lotions and creams.

**Solubility:** Water-soluble

**Preservation:** Benzylalcohol, sodium benzoate, potassium sorbate

**Storage:** Store tightly closed and light protected, at room temperature (75°F/24°C) or below.

**Country of Origin:** USA

**Raw material source:** Cocoons of the silkworm moth

**Manufacture:** Hydrolyzed silk protein is made by isolating silk thread from the cocoon and cleansing and degumming the fibers. The individual silk fiber is then wound with other silk fibers to create one long thread.



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The threads are then combed to remove noils which are then used in the production of hydrolyzed silk proteins through controlled hydrolysis.

**Animal Testing:** Not animal tested.

**GMO:** GMO-free

**Vegan:** Derived from silk worms.

**HS Code:** 3304910000