

1. PRODUCT INFORMATION

Product Name:	PEG-40 Hydrogenated Castor Oil
INCI Name:	PEG-40 Hydrogenated Castor Oil
Composition:	PEG-40 Hydrogenated Castor Oil
Grade:	Cosmetic Grade
Shelf Life:	24 months

2. PRODUCT DESCRIPTION

PEG-40 Hydrogenated Castor Oil is a non-ionic solubiliser produced from hydrogenated castor oil by ethoxylation. It is used to solubilise essential oils, volatile plant oils, fragrance and other lipophilic ingredients into aqueous cosmetic systems. It can also support auxiliary emulsification and help maintain formula clarity.

3. TYPICAL TECHNICAL PROPERTIES

Appearance	Light yellow to transparent colorless liquid
Acid Value	≤ 2.0 mg KOH/g
Hydroxyl Value	65-85 mg KOH/g
Saponification Value	85-105 mg KOH/g
Active Content (HPLC)	$\geq 90.0\%$
pH	5.0-7.5

4. PHYSICAL & CHEMICAL PROPERTIES

Solubility:	Easily soluble in water and ethanol; miscible with most cosmetic oil phases
Use Level:	0.5-3.0% (manufacturing guidance: approximately 2-3 times the dosage of the solubilised oil)
Processing:	Pre-mix with essential oil or fragrance at room temperature, then slowly add to the stirred

5. FUNCTIONS & APPLICATIONS

Solubiliser

Auxiliary Emulsifier

Formula Clarity Support

Applications: fragranced toners, hydrating essences containing essential oils, transparent cleansing waters, skincare sprays and aqueous fragrance systems

6. STORAGE & HANDLING

Store in a sealed, cool and dry place away from high temperatures and direct sunlight.

Keep the container tightly sealed after opening to minimise contamination and absorption of foreign odours.

Normal industrial handling practices are appropriate.

7. SAFETY PROFILE

Based on available manufacturing documentation, PEG-40 Hydrogenated Castor Oil is not identified as hazardous under normal conditions of use. Refer to the Safety Data Sheet (SDS) for detailed safety and handling information.

8. REGULATORY STATUS

PEG-40 Hydrogenated Castor Oil is supplied as a cosmetic-grade raw material intended for topical cosmetic formulation. Manufacturing documentation states that the product meets the stated China cosmetic raw-material standard and EU cosmetic regulation requirements. The formulator is responsible for assessing suitability and compliance of the finished product for its intended market.

DOCUMENT CONTROL

Document No: TDS-PEG40-001 v1.0

Issue Date: 08/09/2026