

1. PRODUCT INFORMATION

Product Name:	Sclerotium Gum
INCI Name:	Sclerotium Gum
CAS No.:	39464-87-4
Composition:	Polyoxyethylene sorbitan monooleate
Grade:	Cosmetic Grade
Shelf Life:	24 months

2. PRODUCT DESCRIPTION

Sclerotium Gum is a natural polysaccharide obtained by microbial fermentation. It is a rheology modifier and stabiliser, providing thickening, gelling and suspending properties. It delivers a smooth skin feel, broad-pH stability and good compatibility with most cosmetic raw materials. It is used in skincare and hair-care formulations to adjust viscosity, stabilise emulsion systems and improve texture.

3. TYPICAL TECHNICAL PROPERTIES

Appearance	White powder
Odour	Characteristic
Assay (HPLC)	$\geq 99.0\%$
Loss on Drying	$\leq 5.0\%$
Heavy Metal	< 5.0 mg/kg
Total Plate Count	$\leq 1,000$ cfu/g
Yeast & Moulds	≤ 100 cfu/g
E. coli	Negative
Salmonella	Negative

4. PHYSICAL & CHEMICAL PROPERTIES

Solubility:	Soluble in water; insoluble in oils and organic solvents
Physical form:	Fine white powder
pH (0.2%)	5.5-8.0
Stability:	Stable over a broad pH range (3-12); good thermal stability
Volatility:	Negligible

5. FUNCTIONS & APPLICATIONS

Primary Functions:

Thickener & Rheology Modifier
Stabiliser & Suspending Agent
Skin-conditioning Agent

Typical Applications:

Suitable for use in facial creams, lotions, serums, masks, sunscreens, shampoos, conditioners and makeup products

6. STORAGE & HANDLING

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

Keep tightly sealed after use to avoid moisture absorption and contamination.

Normal industrial handling practices are appropriate.

7. SAFETY PROFILE

Manufacturing documentation describes Sclerotium Gum as low-irritation under normal cosmetic dosage and non-toxic for skin use. Refer to the Safety Data Sheet (SDS) for detailed safety and handling information.

8. REGULATORY STATUS

Sclerotium Gum is supplied as a cosmetic-grade raw material. Manufacturing documentation states compliance with cosmetic raw-material safety standards. The formulator is responsible for assessing suitability and compliance of the finished product for its intended market.

DOCUMENT CONTROL

Document No: TDS-SCLGUM-001 v1.0

Issue Date: 10/09/2026