

Technical Data Sheet

Avena Sativa Kernel Extract | 5.000% Terminalia Ferdinandiana Fruit Extract in Water + Propanediol + Glycerin Extract with Kakadu plum Extract

Product Code FL-TEF-W1-MBS4-5PCT-001-TDS

Current published version — subject to change.

This document is the current web-published revision. Specifications, classifications, and recommendations may be revised without notice as additional batch and analytical data become available. **For any shipment, the authoritative document is the revision packaged with your batch — refer to that version for the values that apply to the lot you receive.**

Product Overview

| | |
|----------------------------------|--|
| Product Name | Avena Sativa Kernel Extract 5.000% Terminalia Ferdinandiana Fruit Extract in Water + Propanediol + Glycerin Extract with Kakadu plum Extract |
| Product Code / SKU | FL-TEF-W1-MBS4-5PCT-001-TDS |
| Document Revision | 0.1 |
| Effective Date | May 20, 2026 |
| Manufacturer | Formulate Labs, Inc. 1645 Headland Dr. Fenton, MO 63026 |
| Quality Contact | quality@formulate.co <i>Lot issues, complaints, contamination concerns, out-of-spec materials, COA discrepancies.</i> |
| Regulatory Contact | regulatory@formulate.co <i>INCI, allergens, IFRA, Prop 65, vegan/natural claims, compliance documents, formulation-use questions.</i> |
| Adverse Effects Reporting | safety@formulatelabs.ai |
| Emergency Phone Number | 888-999-2260 |

A 5.000% Terminalia Ferdinandiana Fruit Extract hydroglycerin stock prepared in water + propanediol + glycerin extract and preserved with Kakadu plum Extract at 2.000%. Ready-to-dilute aqueous botanical concentrate for cosmetic serums, toners, and emulsions.

Recommended Cosmetic INCI Declaration

Water, Propanediol, Glycerin, Terminalia Ferdinandiana Fruit Extract, Propanediol, Ethylhexylglycerin, Benzoic Acid

INCI ordering follows descending weight per FDA / EU cosmetic labeling convention; ingredients below 1% may appear in any order in the final label per local regulations. The process-integrated preservation system is disclosed in the SDS for industrial safety and formulation review. Finished-product manufacturers and brand owners remain responsible for final ingredient labeling determinations in each sale jurisdiction.

Composition / Information on Ingredients

| Ingredient / Chemical Name | CAS # | Function | % by Weight |
|--|------------|--|-------------|
| Water | 7732-18-5 | Hydroglycerin carrier / solvent | 58.737% |
| Propanediol | 504-63-2 | Hydroglycerin carrier / solvent | 24.474% |
| Glycerin | 56-81-5 | Hydroglycerin carrier / solvent | 9.789% |
| Terminalia Ferdinandiana Fruit Extract | — | Botanical extract; bioactives include polyphenols, flavonoids, botanical actives | 5.000% |
| Propanediol | 504-63-2 | Preservative / antimicrobial component | 1.700% |
| Ethylhexylglycerin | 70445-33-9 | Preservative / antimicrobial component | 0.200% |

| Ingredient / Chemical Name | CAS # | Function | % by Weight |
|----------------------------|---------|--|-------------|
| Benzoic Acid | 65-85-0 | Preservative / antimicrobial component | 0.100% |

Preservation System

| System | Level | Notes |
|---------------------|--------|---|
| Kakadu plum Extract | 2.000% | Multifunctional aqueous preservation per supplier guidance. |

Preserved with Kakadu plum Extract at 2.000% in the aqueous stock.

Key Technical Attributes

| | |
|-----------------------------------|---|
| Format | Aqueous hydroglycerin cosmetic raw material |
| Appearance | Translucent to light amber liquid; may show slight botanical particulate haze |
| Odor | Characteristic mild herbal; no added fragrance |
| Preservation | Preserved with Kakadu plum Extract at 2.000% in the aqueous stock. |
| Target pH | 4.5–5.1 (target for preserved stock as shipped) |
| Solubility / Compatibility | Water-miscible hydroglycerin stock; dilutes into aqueous phases |
| Recommended Use Level | Typical finished-formula use: 0.5%–5.0% of this stock on an as-is basis in aqueous serums, toners, masks, and emulsions. Use levels are guidance only. |
| Processing | Add to aqueous or cool-down phases below 40 °C. Maintain finished-product pH within the preservative-valid range (4.5–5.1 typical for this stock). Validate compatibility with cationic polymers and high-surfactant systems independently. |
| Storage | Store tightly closed at room temperature, protected from direct sunlight and excessive heat. Refrigeration (2–8 °C) optional for extended color stability. Use within preservative-validated shelf life after opening. |
| Shelf Life | Anticipated unopened, refrigerated: 18-24 months. Anticipated unopened, controlled room temperature: 12-18 months. Open or in-use containers require site-specific microbial controls. Ranges represent the current published target and may be refined by future stability data. |

Formulation Guidance

- Hydroglycerin stock ships at 5% botanical extract loading — dilute into finished formulas as needed.
- Compatible with K-beauty cica / barrier-support positioning at typical use rates.
- Finished formulas must be independently preservative-validated if further diluted.
- Structure/function cosmetic claims only — avoid therapeutic or drug-like language.

Marketing / Claims Guidance

Appropriate cosmetic language may include soothing appearance, sensitive-skin tolerance, barrier-comfort positioning, and colloidal-oat heritage stories. **Avoid therapeutic claims** (treats eczema, cures dermatitis, heals wounds). Colloidal oat is a common trade/context name — Formulate Labs sells the INCI extract in our hydroglycerin stock, not supplier-branded colloidal-oat SKUs.

Regulatory Notes

- **Current published version — subject to change.** This document represents the current web revision. Specifications may be revised as additional batch and analytical data become available; the document packaged with each shipment is the authoritative version for the specific lot received.
- Recommended cosmetic INCI declaration is the descending-weight string listed above.
- SDS composition disclosure is provided for industrial safety, formulation review, and regional compliance assessment.
- No fragrance is intentionally added.

- **Not certified organic, kosher, halal, COSMOS, vegan, or non-GMO unless separately accompanied by a third-party certificate.** Suitability assessments based on the ingredient deck and supplier information are not equivalent to certifications.
- Component supplier data has been used in good faith; supplier-issued documents take precedence over individual statements above where a discrepancy exists.
- Finished-product manufacturers remain responsible for final product safety, claims, label compliance, regional restrictions, and preservative efficacy.