

## Technical Data Sheet

Avena Sativa Kernel Extract | 5.000% Phellodendron Amurense Bark Extract in Water + Propanediol + Glycerin Extract with Phellodendron Bark Extract

Product Code FL-PBE-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

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

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

## Recommended Cosmetic INCI Declaration

**Water, Propanediol, Glycerin, Phellodendron Amurense Bark 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%      |
| Phellodendron Amurense Bark Extract | —         | Botanical extract; bioactives include berberine, palmatine, alkaloids | 5.000%      |
| Propanediol                         | 504-63-2  | Preservative / antimicrobial component                                | 1.700%      |

| Ingredient / Chemical Name | CAS #      | Function                               | % by Weight |
|----------------------------|------------|--|-------------|
| Ethylhexylglycerin         | 70445-33-9 | Preservative / antimicrobial component | 0.200%      |
| Benzoic Acid               | 65-85-0    | Preservative / antimicrobial component | 0.100%      |

## Preservation System

| System                     | Level  | Notes   |
|----------------------------|--------|---|
| Phellodendron Bark Extract | 2.000% | Multifunctional aqueous preservation per supplier guidance. |

Preserved with Phellodendron Bark Extract at 2.000% in the aqueous stock.

## Key Technical Attributes

|                                   |   |
|-----------------------------------|---|
| <b>Format</b>                     | Aqueous hydroglycerin cosmetic raw material   |
| <b>Appearance</b>                 | Translucent to light amber liquid; may show slight botanical particulate haze   |
| <b>Odor</b>                       | Characteristic mild herbal; no added fragrance  |
| <b>Preservation</b>               | Preserved with Phellodendron Bark Extract at 2.000% in the aqueous stock.   |
| <b>Target pH</b>                  | 4.5–5.1 (target for preserved stock as shipped)   |
| <b>Solubility / Compatibility</b> | Water-miscible hydroglycerin stock; dilutes into aqueous phases   |
| <b>Recommended Use Level</b>      | 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.  |
| <b>Processing</b>                 | 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.                                       |
| <b>Storage</b>                    | 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.  |
| <b>Shelf Life</b>                 | 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.