**Shake well and apply. This fluid sunscreen lotion goes on clean and leaves your skin soft & lightweight,**

**all while providing a high level of SPF protection**

Category: Sun Care

**KW1-002: Ultra-Light Sunscreen Lotion SPF 50**

|  |  |  |  |
| --- | --- | --- | --- |
| Ingredient | INCI | Supplier | W/W% |
| Phase A |  |  |  |
| Water | Water | -- | 52.68 |
| 1,3 Butylene Glycol | Butylene Glycol | Alzo International | 1 |
| Phenoxetol | Phenoxyethanol | Clariant | 0.5 |
| Dermol CG | Caprylyl glycol | Alzo International | 0.5 |
| Dissolvine NA2-S | Disodium EDTA | Akzo Nobel | 0.2 |
| Caustic Soda, 25% | Sodium Hydroxide | Alzo International | 0.02 |
| XG FNCSP-PC | Xanthan Gum | Jungbunzlauer | 0.1 |
| Phase B |  |  |  |
| Neo Heliopan 357 | Avobenzone | Symrise | 3 |
| Neo Heliopan 303 | Octocrylene | Symrise | 5 |
| Neo Heliopan OS | Octisalate | Symrise | 5 |
| Neo Heliopan HMS | Homosalate | Symrise | 15 |
| Hetester PHA | **Propylene Glycol Isoceteth-3 Acetate** | **Alzo International** | **10** |
| Elefac I-205 | **Octyldodecyl Neopentanoate** | **Alzo International** | **7** |
| Total |  |  | **100.00** |

**Manufacturing Procedure**:

1. Combine Phase A, except xanthan gum, into main beaker and begin heating to 50-60° C then add Xanthan Gum to water under Silverson or dispersion blade mixing.
2. In side beaker, combine components of phase B, heat to 50-60° C or until Avobenzone is dissolved
3. Add Phase B to main beaker, mix until homogenous, then cool to room temperature.

**Alzo Ingredient Benefits**:

**Elefac I-205 –** an excellent emollient for sunscreens: improves the spread & feel of chemical sunscreens and is an excellent dispersant for mineral sunscreens

**Hetester PHA –** can function as an emollient and solubilizer in aqueous and alcohol-based systems or as a co-emulsifier and lightweight ester in emulsions