



FORMULATION & COSTING : Natural Clay Emulsion Base

Customer:

Reference #: 1310411

Version: H

Date: January 17, 2019

| Raw Materials  | INCI NAMES  | FUNCTION  | SOURCE         | %w/w   |
|----------------|---|---|----------------|--------|
| <b>A</b>       |   |   |                |        |
| di             |   | carrier   | common         | 85.30  |
| Veegum Ultra   | Magnesium Aluminum Silicate   | emulsion stabilizer   | RTV/DKSH       | 1.00   |
| Vanatural XGB  | Bentonite   | rheology modifier; stabilizes emulsion specially at elevated temp | RTV/DKSH       | 0.75   |
| Glycerin       | Glycerin  | humectant   | common         | 3.00   |
| <b>B</b>       |   |   |                |        |
| edta           | edta  | chelating agent   | common         | 0.05   |
| citric acid    | citric acid   | chelating agent   | common         | 0.10   |
| <b>C</b>       |   |   |                |        |
| Dermol 25B     | C12-15 Alkyl Benzoate   | emollient   | Alzo/DKSH      | 2.00   |
| Cetyl Alcohol  | Cetyl alcohol   | emulsifier  | common         | 1.30   |
| Jolee 7877     | Glyceryl Stearate Citrate, Polyglycerol Polyricinoleate, Sorbitan Isostearate, Triethylhexanoic | readily forms emulsion in water                                   | Oleon/DKSH     | 1.50   |
| <b>D</b>       |   |   |                |        |
| EverMap 160K   | Potassium Cetyl Phosphate   | emulsifier; works also at low pH                                  | Sino Lion/DKSH | 1.00   |
| <b>E</b>       |   |   |                |        |
| Euxyl PE 9010  | Phenoxyethanol, Ethylhexylglycerin  | preservative  | Schuelke/DKSH  | 1.00   |
| Jolee 7202     | Propylene Glycol Diheptanoate   | natural emollient with dry after-feel                             | Oleon/DKSH     | 2.00   |
| Belsil EG 6000 | Dimethicone & Divinyl Dimethicone/ Dimethicone Crosspolymer                                     | silky skin feel   | Wacker/DKSH    | 1.00   |
| <b>TOTAL</b>   |   |   |                | 100.00 |

Manufacturing Procedures:

1. Disperse Veegum and Vanatural XGB in Glycerin. Add into water while heating at 75C.
2. Add Phase B.
3. Heat Phase C at 60C. Add into Phase AB with mixing.
4. Add Phase D and start to cool down at 40C under moderated mixing.
5. Add Phase E one at a time mixing well after each addition.

Appearance soft, thick emulsion

pH 5.5-6.5

Remarks

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