



## Gentle Toothpaste

### DESCRIPTION

This sulfate-free toothpaste features **Suga®Nate 160NC** for cleansing with exceptionally low irritation potential and neutral flavor profile. With its exceptionally low irritation potential, supported by results using in-vitro gingival and mucosal models, Suga®Nate 160NC is the ideal choice for next-generation toothpastes and other oral care products.

### FORMULATION

| Order | INCI                                           | Trade Name                                  | %     | Function     |
|-------|------------------------------------------------|---------------------------------------------|-------|--------------|
| 1     | Water                                          | Water                                       | 13.10 | Diluent      |
| 2     | Sorbitol                                       | Sorbitol 70%                                | 25.00 | Humectant    |
| 3     | Magnesium Aluminum Silicate                    | Veegum® D <sup>1</sup>                      | 1.50  | Thickener    |
| 4     | Glycerin                                       | Glycerin                                    | 10.00 | Humectant    |
| 5     | Sodium Carboxymethylcellulose                  | Aqualon™ CMC-7MF <sup>2</sup>               | 1.00  | Thickener    |
| 6     | Calcium Carbonate                              | Calcium Carbonate USP31 Powder <sup>3</sup> | 44.00 | Abrasive     |
| 7     | Flavor                                         | Nat. Mint Extract <sup>4</sup>              | 1.00  | Flavor       |
| 8     | Sodium Saccharine                              | Sodium Saccharine <sup>5</sup>              | 0.20  | Sweetener    |
| 9     | Sodium Benzoate                                | Sodium Benzoate                             | 0.20  | Preservative |
| 10    | Sodium Laurylglucosides Hydroxypropylsulfonate | <b>Suga®Nate 160NC</b>                      | 4.00  | Surfactant   |

### PROCEDURE

1. Combine ingredients 1 – 3 and mix until uniform.
2. In a separate vessel, combine ingredients 4 – 5 as a premix. Add the premix to the primary vessel and mix for 30 minute or until completely hydrated.
3. Slowly add ingredient 6 and continue mixing until well dispersed.
4. Add ingredients 7 – 10. Continue mixing until uniform.

### TYPICAL PROPERTIES

Appearance                      Opaque, white paste  
pH (10%)                            7.5 – 8.0  
Viscosity (T-F, 1.5 rpm)        > 600,000 cP

### SUPPLIERS

<sup>1</sup>Vanderbilt Minerals, <sup>2</sup>Ashland, <sup>3</sup>Vivion, <sup>4</sup>Flavorchem, <sup>5</sup>Jan Dekker

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