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## VersaFreeze Relief Stick

Take advantage of the versatile cooling relief of menthol in a no-mess, non-staining crystal-clear form.

*penreco*

### **Versastique™ Clear ME 5 T**

A crystal clear hydrogenated polyisobutene-based blend simplifies the creation of clear stick products. It is compatible with a wide variety of low polarity materials while stabilizing and protecting active ingredients. This base gives a glossy appearance, adds moisturization, and provides good spreading properties. It is easily emulsified and is a great alternative to mineral oil.

### **Versastique™ Clear ML 5 T**

A crystal clear C12-15 alkyl benzoate-based blend simplifies the creation of clear stick products. It is compatible with a wide variety of low polarity materials while stabilizing and protecting active ingredients. This base is a good solubilizer that helps uniformly disperse other ingredients while adding some light moisturization.

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## VersaFreeze Relief Stick

Formula no: HL0041-120-1

| #              | TRADE NAME                        | INGREDIENT(S)  | WT %  | SUPPLIER               |
|----------------|-----------------------------------|--|-------|------------------------|
| <b>PHASE A</b> |                                   |  |       |                        |
| 1              |                                   | Neopentyl Glycol Diheptanoate  | 5.66  |                        |
| 2              | PERFORMA™ V 6038 Polymer          | Synthetic Wax  | 5.64  | New Phase Technologies |
| 3              |                                   | Trilaurin  | 3.00  |                        |
| 4              | Versastique™ Clear ME 5 T         | Hydrogenated Polyisobutene (and) Butyl Stearate (and) Isostearyl Alcohol (and) Hydrogenated Styrene/Butadiene Copolymer (and) Dibutyl Lauroyl Glutamide (and) Dibutyl Ethylhexanoyl Glutamide (and) Pentaerythrityl Tetra-Di-t-Butyl Hydroxyhydrocinnamate | 50.00 | Penreco                |
| 5              | Versastique™ Clear ML 5 T         | C12-C15 Alkyl Benzoate (and) Butyl Stearate (and) Isostearyl Alcohol (and) Hydrogenated Styrene/Butadiene Copolymer (and) Dibutyl Lauroyl Glutamide (and) Dibutyl Ethylhexanoyl Glutamide (and) Pentaerythrityl Tetra-Di-t-Butyl Hydroxyhydrocinnamate     | 25.00 | Penreco                |
| <b>PHASE B</b> |                                   |  |       |                        |
| 6              | SunCROMA™ D&C Violet 2 (C46-A223) | Violet 2 (CI 60725) (0.1% solution in Neopentyl Glycol Diheptanoate)   | 0.20  | SunChemical            |
| 7              | dl- $\alpha$ -Tocopheryl Acetate  | Tocopheryl Acetate   | 0.50  | DSM                    |
| 8              | L-Menthol Crystals USP            | Menthol  | 10.00 | Nectar Life Sciences   |
|                |                                   | <b>Total</b>   | 100%  |                        |

Not all raw materials listed are manufactured in accordance with cGMP. Please ensure you review and align to all regulations.

### PROCEDURE

1. Combine phase A ingredients and heat to 110°C with mixing.
2. Once A is fully melted, add phase B ingredients sequentially with mixing; mix until menthol is fully melted & incorporated. Note: For greater accuracy, SunCROMA® D&C Violet 2 was first dissolved in Neopentyl Glycol Diheptanoate to make a 0.1% solution.
3. Immediately pour into stick-style packaging.

### PROPERTIES

Aesthetics: clear, violet stick product.

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