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Physical Sunscreen Stick Formulation J3/57A

This non-volatile stick does not require special manufacturing conditions to produce. The **JEECOL® PMA-3** is a light ester that can substitute for volatile solvents in stick formulations. This stick is non-whitening and leaves a dry silky feel upon application. Stick structure is provided by the **JEENATE®** polyethylenes. The **JEECHEM® TISC** adds water-resistancy to the product and provides cushion. The **JEECIDE® CAP-2** is a paraben-free preservative which ensures microbiological integrity.

Ingredients	INCI Nomenclature%	Supplier	%
JEECOL® PMA-3	PPG-3 Myristal Ether	JEEN® Int'l	53.5
JEESPERSE® ZOTN-65	Zinc Oxide & C12-15 Alkyl Benzoate	JEEN® Int'l	20.0
JEENATE® 3H	Polyethylene	JEEN® Int'l	3.0
JEENATE® 5H	Polyethylene	JEEN® Int'l	7.5
JEESPERSE® T50 TN	Titanium Dioxide & C12-15 Alkyl Benzoate	JEEN® Int'l	10.0
JEECHEM® TISC	Triisostearyl Citrate	JEEN® Int'l	5.0
JEECIDE® CAP-2	Caprylyl Glycol & Phenoxyethanol & Hexylene Glycol	JEEN® Int'l	0.5
Vitamin E Acetate	Tocopheryl Acetate	JEEN® Int'l	0.5

Procedure:

1. Add the JEECOL® PMA-3 and heat to 75-80C.
2. Add in the other ingredients except the Vitamin E and mix until uniform. Homogenizing agitation may be required to fully disperse the powders.
3. Cool the batch to 55-60C and add in the Vitamin E.
4. Pour product into stick containers and let harden.

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