



Silicone-Free Antiperspirant Spray

Boost user confidence with extra-dry products that deliver the sensory feel of cyclopentasiloxane

Solstice Enhance (HFO-1233zd(E)), a multifunctional solvent and carrier fluid, offers exciting possibilities for formulators. A nonflammable¹ alternative to hydrocarbons and high global warming potential (GWP) hydrofluorocarbons, it is non-ozone-depleting, VOC-exempt (U.S. EPA)², with an **Earth-friendly** ultra-low GWP of one.

PHASE	TRADE NAME	INCI	WT%
Concentrate	Mineral Oil	Mineral Oil	17.8
	Finsolv® TN	C12-C15 Alkyl Benzoate	21.2
	Fragrance	Fragrance	7.4
	BENTONE GEL® GTCC V	Caprylic/Capric Triglyceride; Stearylalkonium Hectorite; Propylene Carbonate	9.4
	REACH 103	Aluminum Chlorohydrate	44.2
		TOTAL	100
Aerosolized	Concentrate		13.58
	Solstice Enhance	Chlorotrifluoropropene	2.42
	Propellant A-46	Propane; Isobutane	84
		TOTAL	100

¹ ASTM E-681, EU A11

² Negligible contribution to smog formation

FORMULATION PROCEDURE:

Pre-step: Chill Solstice Enhance (below 19°C) before combining with the formulation. Store in refrigerator.

Concentrate:

1. Weigh Mineral Oil, Finsolv TN, Fragrance and BENTONE GEL GTCC V in a beaker. Mix until uniform using a rotor stator mixer.
2. The mixture should build in viscosity. Slowly add REACH 103. Mixture will continue to thicken. Mix for additional 5 minutes with rotor stator mixer.

Aerosolized:

1. Fill liquid concentrate into aluminum/ plastic cans in the order of addition.
2. Add Solstice Enhance.
3. Crimp valve on can.
4. Charge with Propellant.
5. Shake the can vigorously until uniform.

For more information:
call 800-631-8138
(U.S. and Canada)
or your local sales office.

www.hwll.co/personalcare

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6406 FP PC LTR | v1 | 06/2020
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