



Cool Ultra-Crackling Foam

Unique moisturizing foam with extra cooling and ultra-crackling sensation

Solstice Propellant (HFO-1234ze(E)), a breakthrough for aerosol-based products, and Solstice Enhance (HFO-1233zd(E)), a multifunctional solvent and carrier fluid, offer exciting possibilities for formulators. As nonflammable¹ alternatives to hydrocarbons and high global warming potential (GWP) hydrofluorocarbons, they are non-ozone-depleting, VOC-exempt,² with an **Earth-friendly** ultra-low GWP of one or less.

PHASE	TRADE NAME	INCI	WT%
Concentrate	DI Water	Water	68.6
	Natrosol™ 250 HX	Hydroxyethylcellulose	1.6
	Propylene Glycol	Propylene Glycol	0.8
	Tween™ 20	Polysorbate-20	0.6
	Solulan™ C-24	Choleth-24	2.4
	DOWSIL™ 9041 Silicone Elastomer Blend	Dimethicone; Dimethicone Crosspolymer	2.4
	XIAMETER™ PMX-1184 Silicone Fluid	Dimethicone; Trisiloxane	2.8
	euxyl® PE 9010	Phenoxyethanol; Ethylhexylglycerin	0.4
	Fragrance	Fragrance	0.4
	Ethanol 200 Proof	Alcohol Denat.	20
		TOTAL	100
Aerosolized	Concentrate		23
	Solstice Enhance	Chlorotrifluoropropene	9
	Solstice Propellant	Tetrafluoropropene	68
		TOTAL	100

¹ ASTM E-681, EU A11

² Solstice Enhance: VOC-exempt (U.S. EPA), Solstice Propellant: VOC-exempt (U.S. EPA and CARB); 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. In a main beaker, weigh Water and Propylene Glycol.
2. Disperse Natrosol 250 HX in cold water with a paddle mixer and start heating to 70-75°C. Once it's dispersed, start adding Tween-20 and Solulan C-24.
3. While continually mixing, cool down the batch to room temperature and then add the rest of the ingredients in the order of addition.
4. Homogenize the batch for 1 minute to ensure uniform mixing.

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 Solstice 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

Honeywell Advanced Materials

115 Tabor Road
Morris Plains, NJ 07950

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