



Sherbet¹ Moisturizer

A unique crackling sensation in this body moisturizer delivers a fun product application experience

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 nonflammable² alternatives to hydrocarbons and high global warming potential (GWP) hydrofluorocarbons, they are non-ozone-depleting, VOC-exempt,³ with an **Earth-friendly** ultra-low GWP of one or less.

PHASE	TRADE NAME	INCI	WT%
Concentrate	DI Water	Water	83.2
	Glycerin	Glycerin	3
	FENTACARE® BTAC DPG 70	Behentrimonium Chloride; Dipropylene Glycol	3
	Promulgen™ D	Ceteareth-20; Cetearyl Alcohol	2
	AHCOHOL™ 1618 TA	Cetearyl Alcohol	5
	Argan Oil	Argania Spinosa Kernel Oil	2
	XIAMETER™ PMX-1184 Silicone Fluid	Dimethicone; Trisiloxane	1
	Citric Acid (10%)/water	Citric Acid	(Adjust pH to 4.5)
	euxyl® PE 9010	Phenoxyethanol; Ethylhexylglycerin	0.7
	Fragrance	Fragrance	0.1
		TOTAL	100
Aerosolized	Concentrate		50
	Solstice Propellant	Tetrafluoropropene	10
	Solstice Enhance	Chlorotrifluoropropene	40
		TOTAL	100

¹ Not for human consumption

² ASTM E-681, EU A11

³ 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 Glycerin. Start heating to 70-80°C. Add BTAC DPG 70 and mix until uniform.
2. In a separate beaker, weigh the oil phase (Promulgen D, AHCOHOL 1618, Argan Oil) and start heating to 70-80°C.
3. Once both phases are at 70-80°C, add the oil phase to the main beaker and homogenize for 1 min.
4. Mix the batch with a paddle mixer. Cool down the batch to room temperature and then add the rest of the ingredients in the order of addition.

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

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