#### BEAUTY & PERSONAL CARE FORMULATION CARD | CANADA



# Punk It Up Hair Ringing Gel

Unique clear hair pomade gel designed to control and tame curly, frizzy, coarse hair. It provides a full array of benefits including frizz control, curl retention, definition, natural styling, and long lasting benefits.

#### DOWSIL<sup>™</sup> 3901 Liquid Satin Blend

This is a very diverse polymer that can be used in all personal care segments. It has a very unique texture and rheology, providing a playful element to your formula. It has a satin like feel with benefits such as frizz control, ease of styling, hair alignment, heat protection.

#### ACUDYNE<sup>™</sup> 1000 Hair Styling Polymer

This is a dual phase polymer which delivers all day hold for hair styling with excellent humidity resistance.



#### AMP-ULTRA<sup>™</sup> PC 2000 (5% water)

This is the perfect choice for neutralizing. It is globally approved for personal care use. It has additional hair care benefits including outstanding high-humidity curl retention (HHCR). It improves wash ability and elasticity of resins. It creates longlasting colour/wash-fastness with lower odor than ammonia. Improves colour stability and clarity of gels. Provides best-in-class compatibility with commonly used resin and propellant systems.

### Punk It Up Hair Ringing Gel

#	TRADE NAME	INCI NAME	FUNCTION	WT%	SUPPLIER				
PH	PHASE 1								
1	DOWSIL <sup>™</sup> 3901 LIQUID SATIN BLEND	Dimethicone (and) Dimethicone / Vinyl Dimethicone Crosspolymer	Satin-like feel, cold process, enhances sensory experience	5	DOW®/ Univar Solutions				
2	lsohexadecane	Isohexadecane	Emollient	9	-				
3	Peg 7 glyceryl cocoate	Peg 7 glyceryl cocoate	Emulsifier	12.5	-				
4	Fragrance (orange and ginger)	Perfume	Fragrance	0.5	Alpha Aromatics / Univar Solutions				
5	Ceteareth 20	Ceteareth 20	Emulsifier	20	-				
PH	PHASE 2								
6	Water	Aqua	Diluent	35.7	Univar Solutions				



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#	TRADE NAME	INCI NAME	FUNCTION	WT%	SUPPLIER		
7	ACUDYNE <sup>™</sup> 1000	Acrylates / Hydroxyesters Acrylates Copolymer	Unique dual phase technology enhances the film properties to deliver the unique combination of strong holding power and durability	1	DOW®/ Univar Solutions		
8	Sodium Gluconate	Sodium Gluconate	Natural chelating agent	0.2	Jungbunzlauer®/ Univar Solutions		
9	AMP-ULTRA® PC 2000 (5% water)	Aminomethyl Propanol	Neutralizing agent - globally approved for PC use	0.1	Angus® / Univar Solutions		
PHASE 3							
10	MOON OU (natural,99.7%)	Glycerin	Humectant	15	Procter & Gamble® /Univar Solutions		
11	Neolone <sup>™</sup> PH 100	Phenoxyethanol	Preservative	0.5	DOW®/ Univar Solutions		
12	Lincoserve CG	Caprylyl Glycol – >99% purity	Preservative	0.5	Lincoln fine chemicals®/ Univar Solutions		
Total							

- PROCEDURE 1. Pre-Mix ingredients of phase 1 together.
  - 2. Mix phase 2 and heat to 80°C.
  - 3. Pre-mix preservative and glycerin.
  - 4. Mix ingredients of phase 3 together in order listed.
  - 5. Heat phase 3 to 80°C.
  - 6. Once the temperature of phase 2 and phase 3 reached 80°C, slowly add phase 3 to phase 2.
  - 7. Add in Phase 1.
  - 8. Mix until homogeneous at low speed (200 rpm) for few minutes.
  - 9. Fill in jars while the temperature is still at 70-80 degrees C.

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