

Healthcare Solutions



Acne management formulations

Solutions and support for
your topical applications



Innovative skin care formulations and solutions for acne management

Whether for face or body, consumers value improved spreading and sensory aesthetics, long-lasting effects, and the innovative forms of specialty silicones from DuPont.

Consumers increasingly are demanding a higher quality of life and are taking charge of their health and well-being. Over-the-counter topical products to address acne are proliferating to meet their desire to feel and look good.

Dow Corning™ Topical Ingredients offer a broad product range with quality-grade and regulatory documentation for consumer healthcare to help deliver the performance consumers expect and to support the regulatory compliance you need.

Innovation showcase

The formulations in this kit illustrate the broad innovation potential and unique benefits of Dow Corning™ Topical Ingredients for acne management.

- **Spot Acne Treatment**, a hydrogel with good spreadability and a nontacky, smooth after-feel
- **Acne MatteSerum**, a mattifying emulsion with reduced greasiness
- **Acne Purifying Toner**, a simple, cost-effective formulation that soothes and cleanses
- **Spotless Treatment Spray**, a quick-drying, non-occlusive spray for treating body acne; leaves a long-lasting film

As a global leader in silicones—with a fully integrated supply chain and more than 60 years of experience in the healthcare industry—DuPont offers solutions, expertise, quality and compliance support for your topical applications.

Spot Acne Treatment

Formulation 02354

Ingredient	Wt. %	Trade Name
Phase A		
Propylene Glycol	40	Propylene Glycol
Salicylic Acid	2	Salicylic Acid
Phase B		
PEG-10 Dimethicone	2	Dow Corning™ TI-6021 W/O Formulation Aid
Dimethicone	10	Dow Corning™ TI-1050 Fluid, 10 cSt
Dimethicone (and) Dimethicone Crosspolymer	13	Dow Corning™ TI-3021 Silicone Elastomer Blend
Phase C		
Water (Aqua)	31	Water (Aqua)
Sodium Chloride	1	Sodium Chloride
Phenoxyethanol (and) Ethylhexylglycerin	1	Phenoxyethanol (and) Ethylhexylglycerin

Procedure

1. Mix Phase A ingredients together with mixing until complete dissolution of Salicylic Acid.
2. Add Phase B ingredients one by one to Phase A under stirring.
3. Continue mixing until no more elastomer blend particles can be seen.
4. Mix Phase C ingredients together.
5. Slowly add Phase C to Step 3 and mix well.

Attributes

- Good spreadability
- Low greasiness and tack
- Nontacky, smooth after-feel
- Demonstrated in-vitro release of lipophilic active (Salicylic Acid)



Acne MatteSerum

Formulation 02358

Ingredient	Wt. %	Trade Name
Phase A		
Propylene Glycol	35	Propylene Glycol
Salicylic Acid	2	Salicylic Acid
Phase B		
PEG-10 Dimethicone	5	Dow Corning™ TI-6021 W/O Formulation Aid
Dimethicone	10	Dow Corning™ TI-1050 Fluid, 1.5 cSt
Dimethicone (and) Dimethicone Crosspolymer	5	Dow Corning™ TI-3021 Silicone Elastomer Blend
Dimethicone (and) Dimethiconol	5	Dow Corning™ TI-3011 Gum Blend
Phase C		
Water (Aqua)	31	Water (Aqua)
Sodium Chloride	1	Sodium Chloride
Glycerin	5	Glycerin
Phenoxyethanol (and) Ethylhexylglycerin	1	Phenoxyethanol (and) Ethylhexylglycerin

Procedure

1. Mix Phase A ingredients together with mixing until complete dissolution of Salicylic Acid.
2. Add Phase B ingredients one by one to Phase A under stirring.
3. Mix Phase C ingredients together.
4. Slowly add Phase C to Phase AB mixture using high-speed mixing.

Attributes

- Emolliency
- Good spreadability
- Less greasy
- Mattifying effect
- Non-occlusive
- Demonstrated in-vitro release of lipophilic active (Salicylic Acid)



Acne Purifying Toner

Formulation 02359

Ingredient	Wt. %	Trade Name
Phase A		
Ethyl Alcohol, 200 proof	21	Alcohol
Salicylic Acid	0.5	Salicylic Acid
Propylene Glycol	7.5	Propylene Glycol
Phase B		
PEG-12 Dimethicone	6	Dow Corning™ TI-2011 SPE Specialty Fluid
Phenoxyethanol (and) Ethylhexylglycerin	1	Phenoxyethanol (and) Ethylhexylglycerin
Water (Aqua)	64	Water (Aqua)

Procedure

1. Mix Phase A ingredients together with mixing until complete dissolution of Salicylic Acid.
2. Add Phase B ingredients to Phase A and mix.

Attributes

- Cost-effective, simple formulation
- Emolliency
- Facial cleansing
- Liquid
- Demonstrated in-vitro release of lipophilic active (Salicylic Acid)



Spotless Treatment Spray

Formulation 02361

Ingredient	Wt. %	Trade Name
Phase A		
Caprylic/Capric Triglyceride	16	Caprylic/Capric Triglyceride
Salicylic Acid	2	Salicylic Acid
Ethyl Alcohol, 200 proof	21	Alcohol
Phase B		
Disiloxane (and) Trisiloxane	46	Dow Corning™ TI-1010 Fluid, 1 cSt
Trimethylsiloxysilicate (and) Dimethicone	15	Dow Corning™ TI-7021 Silicone Resin Blend

Procedure

1. Mix Phase A ingredients together with mixing until complete dissolution of Salicylic Acid.
2. Add Phase B to Phase A with mixing.

Attributes

- Dry quickly
- Long lasting/
substantivity
- Non-occlusive
- Demonstrated
in-vitro release of
lipophilic active
(Salicylic Acid)



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