



Technical Data Sheet

DOWSIL™ PH-1555 HRI Cosmetic Fluid

INCI Name: Trimethyl Pentaphenyl Trisiloxane

Features & Benefits

- Ultra high refractive index
- Good compatibility with cosmetic ingredients
- Easily emulsified
- Resistant to oxidation
- Not tested on animals
- Provides a non-oily, rich skin feel with good spreadability
- Reduces tackiness of common cosmetic ingredients
- Enhances shine in cosmetic formulations
- Imparts gloss to hair
- Useful in making clear antiperspirants/deodorants

Applications

- Color cosmetics
- Skin care
- Hair care
- Antiperspirants and deodorants

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Appearance		Clear white to yellow liquid
Refractive index at 25°C (77°F)		1.5775–1.5800
Flash point - closed cup	°C (°F)	> 101.1 (> 214)
Flash point - open cup	°C (°F)	243 (469)
Viscosity at 25°C (77°F)	cSt	175
Specific gravity at 25°C (77°F)		1.0920–1.0990
Odor		Odorless

Description

DOWSIL™ PH-1555 HRI Cosmetic Fluid is a trimethyl pentaphenyl trisiloxane which improves the performance of many types of cosmetic formulations.

How to Use

DOWSIL PH-1555 HRI Cosmetic Fluid is easy to emulsify with standard emulsifiers by common techniques.

**Handling
Precautions**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

**Usable Life and
Storage**

When stored at or below 25°C (77°F) in the original unopened containers, DOWSIL PH-1555 HRI Cosmetic Fluid has a usable life of 60 months from the date of production.

**Packaging
Information**

This product is available in 20 kg pails and 195 kg drums.

Samples are available in 500 ml bottles.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

**Health And
Environmental
Information**

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, consumer.dow.com or consult your local Dow representative.

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Table 1: Ratios for DOWSIL PH-1555 HRI Cosmetic Fluid: Other ingredient

	1:9	5:5	9:1
Esters			
Cetiol LC	C	C	C
Crodamol GTCC	C	C	C
Crodamol ISNP	C	C	C
Crodamol OP	C	C	C
Lanol 99	C	C	C
Witconol TN	C	C	C
Alcohols/Acids			
Ethanol	C	I	C
Eutanol G	C	I	I
Hydrocarbons			
Castor oil	I	I	I
Isododecane	C	C	C
Mineral oil	C	C	C
Sunflower oil	C	C	C
Glycerides			
Glycerine	I	I	I
Propylene glycol	I	I	I
Active ingredients			
Octyl Methoxy Cinnamate (Parsol MCX)	C	C	C
Parsol SLX	C	I	I
Waxes			
Beeswax	C at 70°C (158°F)	C at 70°C (158°F)	C at 70°C (158°F)
Candelilla wax	C at 70°C (158°F)	C at 70°C (158°F)	C at 70°C (158°F)
Dow Silicones			
XIAMETER™ PMX-200 fluid, 5 cst	I	I	I
XIAMETER™ PMX-200 fluid, 50 cst	I	I	I
XIAMETER™ PMX-0245 Cyclopentasiloxane	I	I	I
DOWSIL™ 556 Cosmetic Fluid	C	C	C
DOWSIL™ RSN-0749 Resin	I	I	I
XIAMETER™ PMX-1501 Fluid	I	I	I
DOWSIL™ 2502 Cosmetic Fluid	C at 40°C (104°F)	I	I
DOWSIL™ 9040 Silicone Elastomer Blend	I	I	I
DOWSIL™ AMS-C30 wax	I	I	I

C = Compatible I = Incompatible

