

***Dow Corning*[®] Q7-9180 Silicone Fluid, 0.65 cSt and 1.0 cSt**

FEATURES & BENEFITS

Formulation dependent

- Highly volatile
- High spreadability
- Dry smooth feel
- Non-greasy
- Good leveling and easy rub-out
- Non-stinging on skin
- Non-cooling
- Non-occlusive

COMPOSITION

- Volatile siloxane fluids:
Hexamethyldisiloxane (0.65 cSt)
and Octamethyltrisiloxane
(1.0 cSt)

Excipient for pharmaceutical applications

APPLICATIONS

Areas of potential use for *Dow Corning*[®] Q7-9180 (0.65 cSt) Silicone Fluid and *Dow Corning*[®] Q7-9180 Silicone Fluid (1.0 cSt) encompass a wide range of skincare or topical delivery applications including:

- Excipient for pharmaceutical topical formulations
- Carrier for actives for a spray
- Skin care
- Sun care

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Property	Unit	Result	
		<i>Dow Corning</i> Q7-9180 0.65 cSt	<i>Dow Corning</i> Q7-9180 1.0 cSt
Appearance		Crystal-clear liquid	Crystal-clear liquid
Purity	%	>99.0	>99.0
Viscosity at 25°C (77°F)	mPa.s (mm ² /s)	0.65	1.0
Specific gravity at 25°C (77°F)		0.76	0.82
Flash point	°C	-3	34
	°F	27	93
Acid number	mg KOH/g	0.05 Max	0.05 Max
Refractive index at 25°C (77°F)		1.375	1.384
Infrared identification (match standard spectrum)		564	92

DESCRIPTION

Dow Corning Q7-9180 Silicone Fluid is a clear, colorless low viscosity linear siloxane liquid having respectively the following formula for 0.65 cSt and 1.0 cSt.

The chemical structure of *Dow Corning* Q7-9180 Silicone Fluid 0.65 cSt and 1.0 cSt is respectively:



Dow Corning Q7-9180 Silicone Fluid
0.65 cSt.

Chemical Name:
Hexamethyl Disiloxane
INCI/CTFA name: Disiloxane
CAS Number: [107-46-0]

Dow Corning Q7-9180 Silicone Fluid
1.0 cSt.

Chemical Name:
Octamethyl Trisiloxane
INCI/CTFA NAME: Trisiloxane
CAS NUMBER: [107-51-7]

Dow Corning Q7-9180 Silicone Fluid can be used as a carrier for topical sprays due to the anti-caking effect and high volatility.

Dow Corning Q7-9180 Silicone Fluid can be used as a pharmaceutical excipient for various topical formulations such as creams, lotions, ointments and gels for the delivery of active drugs.

When used as an excipient in topical pharmaceutical formulations, *Dow Corning* Q7-9180 Silicone Fluid can provide short-term lubrication, smooth feel, emolliency, ease of spreading, and reduced tackiness.

REGULATORY INFORMATION

Dow Corning Q7-9180 Silicone Fluid (0.65 cSt) and *Dow Corning* Q7-9180 Silicone Fluid (1.0 cSt) are tested and packaged under strict quality control guidelines at the Healthcare Industries Materials Site (Hemlock, MI)¹. The Healthcare Industries Materials Site is dedicated to the production of silicone materials for healthcare applications. It is registered with the United States Food and Drug Administration (FDA) as a drug establishment (CFN 1816403). The site quality system for pharmaceutical excipients utilizes principles of current Good Manufacturing Practices for Bulk Pharmaceutical Products. The site is also ISO registered by BSI.

¹The 199.5 kg drums are not packaged at Hemlock.

Dow Corning can provide a technical file based on Drug Master File Format to save you cost on testing and to accelerate your registration process.

Dow Corning Q7-9180 Silicone Fluid is exempt from United States federal VOC regulations (EPA) and is recommended as an alternative to ozone depleting substances.

Dow Corning Q7-9180 Silicone Fluid is included on the list of acceptable precision and electronics cleaning substances in the Significant New Alternatives Policy (SNAP).

This product does not contain any animal or vegetable derived ingredients.

HOW TO USE

Dow Corning Q7-9180 Silicone Fluid may be used alone or blended with other ingredients to provide a fluid base for pharmaceutical skin care formulations.

Dow Corning Q7-9180 Silicone Fluid is compatible with a wide range of materials and exhibit a broad range of solubility that makes formulating relatively easy.

Dow Corning Q7-9180 Silicone Fluid is soluble in all proportions in the following non-polar solvents:

- a) Aliphatic hydrocarbon (e.g. hexane, heptane, mineral spirits)
- b) Aromatic hydrocarbon (e.g. example toluene, xylene)

HANDLING PRECAUTIONS PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOWCORNING.COM, OR FROM

YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

Dow Corning Q7-9180 Silicone Fluid (0.65 cSt) and *Dow Corning* Q7-9180 Silicone Fluid (1.0 cSt) are highly flammable. Therefore, each must be stored in a flame proof, well-ventilated area. Keep containers tightly closed and away from heat, sparks, open flames and other sources of ignition. Take precautionary measures against static discharges (grounding, use of glassware). Handle in a well-ventilated area.

Dow Corning Q7-9180 Silicone Fluid (0.65 cSt) and *Dow Corning* Q7-9180 Silicone Fluid (1.0 cSt) will produce static electricity whenever it flows in pipework or elsewhere. Suitable precautions must be taken to ensure static charge does not build up to a level where it may become a shock hazard or cause a static discharge capable of igniting flammable material. Plastic components should be minimized. All equipment in contact with *Dow Corning* Q7-9180 Silicone Fluid (0.65 cSt) and *Dow Corning* Q7-9180 Silicone Fluid (1.0 cSt) should be adequately grounded. Extinguishing media are carbon dioxide, foam, dry powder and fine water spray.

USABLE LIFE AND STORAGE

When stored at or below 25°C (77°F) in the original unopened containers, *Dow Corning* Q7-9180 Silicone Fluid, 0.65 cSt has a usable life of 60 months from the date of production.

When stored at or below 25°C (77°F) in the original unopened containers, *Dow Corning* Q7-9180 Silicone Fluid, 1.0 cSt has a usable life of 48 months from the date of production.

Keep container closed and away from heat, sparks and open flames.

PACKAGING INFORMATION

Dow Corning Q7-9180 Silicone Fluid is available in two standard viscosity grades: 0.65 and 1.0 cSt. The material is supplied in 156.4 kg drums (for 0.65 cSt), 170 kg drums (for 1.0 cSt) and for both products in 0.340 kg bottles and 13.6 kg pails.

Samples are available in 0.340 kg bottles.

LIMITATIONS

Shipping: DOT Classification: flammable.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

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

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of

purchase price or replacement of any product shown to be other than as warranted.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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