

## Dow Corning® Q7-9180 Silicone Fluid 0.65 cSt and 1 cSt

### FEATURES & BENEFITS

- High volatility
- High spreadability
- Dry smooth feel
- Non-greasy
- Non occlusive

### COMPOSITION

- **Chemical name:**  
Hexamethyldisiloxane (0.65 cSt)  
Octamethyltrisiloxane (1 cSt)
- **INCI name:**  
Disiloxane (0.65 cSt)  
Trisiloxane (1 cSt)
- **CAS number:**  
107-46-1 (0.65 cSt)  
107-51-7 (1 cSt)

### REGULATORY SUPPORT

Dow Corning can provide the following information:

- Letter of Authorization to Drug Master File maintained with the United States Food and Drug Administration (U.S. FDA)
- Technical File based on ICH CTD (International Conference on Harmonisation Common Technical Document) format
- Product Regulatory Information
- Elemental Impurities
- Summary of Health Data

Excipient for pharmaceutical applications

### APPLICATIONS

- *Dow Corning*® Q7-9180 Fluid is commonly used as based fluid in topical formulation because of volatility, spreadability and smooth and non-greasy feel on the skin. Due to its high volatility and its anti-caking effect, the fluid can be considered as carrier for spray.
- *Dow Corning* Q7-9180 Fluid is currently used in a range of dermatological applications such as creams, gels, spray, wipes and formulation for the delivery of active.
- When used as an excipient in topical formulations, *Dow Corning* Q7-9180 Fluid can provide short term lubrication, smooth feel, emolliency, ease of spreading and reduced tackiness.

### 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.

CTM*	Property	Unit	Result	
			0.65 cSt	1 cSt
0176 B	Appearance		Crystal clear liquid	Crystal clear liquid
0823 A	Purity	%	> 99.0	> 99.0
0004 A	Viscosity at 25°C	mm <sup>2</sup> /s	0.65	1
0001 AA	Specific gravity at 25°C		0.76	0.82
0006	Flash point (closed cup)	°C	-3	34

\*CTM: Corporate Test Method, copies of CTM's are available on request.

### DESCRIPTION

*Dow Corning* Q7-9180 Silicone Fluid is a clear, colorless low viscosity and highly volatile linear siloxane, available in a range of two narrow viscosities: 0.65 cSt and 1 cSt.

*Dow Corning* Q7-9180 Silicone Fluid is used to formulate with other organic and inorganic material for topical applications.

### SPECIFIC TESTING

- Infrared identification on each batch
- Elemental impurities testing according to <232> and ICH Q3D guideline for metal impurities, every 2 years

### HOW TO USE

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

*Dow Corning Q7-9180 Silicone Fluid* is compatible with a wide range of materials and exhibits a broad range of solubility, which makes formulation relatively easy.

## REGULATORY INFORMATION

*Dow Corning Q7-9180 Silicone Fluids*, 0.65 and 1 cSt are produced at the Dow Corning Midland plant in Midland, Michigan and further tested and packaged at the Dow Corning Healthcare Industries Materials Site (HIMS) in Hemlock, Michigan. The HIMS facility is dedicated to the production of silicone materials for healthcare application. The Healthcare Industries Materials Site is registered as drug establishment with the United States Food and Drug Administration. The site registration number is 1816403. The site quality system for pharmaceutical excipients utilizes principle of current Good Manufacturing Practices for Bulk Pharmaceutical Products. Both the Dow Corning Midland and Hemlock facilities are registered as part of Dow Corning's global quality system according to ISO 9001:2008.

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## 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 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* is highly flammable. Therefore, it must be stored in a flame proof, well-ventilated area. Keep containers tightly closed and away from heat, sparks, open flames and other source of ignition. Take precautionary measures against static discharges (grounding, use of glassware). Handle in a well-ventilated area.

## USABLE LIFE AND STORAGE

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

*Dow Corning Q7-9180 Silicone Fluid*, 1 cSt has a usable life of 48 months from the date of production. Product should be stored at or below 25°C (77°F) in original unopened containers.

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

## PACKAGING INFORMATION

*Dow Corning Q7-9180 Silicone fluid* is available in drums and pails.

Samples for *Dow Corning Q7-9180 Silicone Fluid* are available in bottles.

## SHIPPING LIMITATIONS

**DOT classification:** Flammable

## LIMITATIONS

This product is not tested for specific pharmaceutical use(s). Should you wish to use this product in a pharmaceutical application, please

contact Dow Corning to discuss such potential use.

It remains the User's responsibility to ensure the safety, efficacy and legal and regulatory compliance in each relevant jurisdiction (including targeted geographic regions of manufacture and supply) of these materials for its intended uses. Dow Corning makes no representation concerning the suitability of these products for any particular medical or pharmaceutical application. Under no circumstances should these materials be considered for implantation into the human body for periods that exceed 30 days in duration.

## 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](http://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 at the date of the document. 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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**Table 1: Compatibility Data**

Chemical name	Dow Corning® Q7-9180 Silicone Fluid					
	0.65 cSt			1 cSt		
Silicone level	10%	50%	90%	10%	50%	90%
<b>Alcohol and polyols</b>						
Ethanol	C	C	C	C	C	C
Ethoxydiglycol	C	NC	C	C	NC	C
Glycerin	NC	NC	NC	NC	NC	NC
Octyldodecanol	C	C	C	C	C	C
Propylene Glycol	NC	NC	NC	NC	NC	NC
Squalane	C	C	C	C	C	C
<b>Oil</b>						
Almond oil	C	C	C	C	C	C
Castor oil	C	NC	NC	C	NC	NC
Joboba oil	C	C	C	C	C	C
<b>Ester</b>						
Caprylic/Capric Triglyceride	C	C	C	C	C	C
C12-C15 Alkyl Benzoate	C	C	C	C	C	C
Coco-Caprylate/Caprate	C	C	C	C	C	C
Diisopropyl Adipate	C	C	C	C	C	C
Isopropyl Myristate	C	C	C	C	C	C
Isopropyl Palmitate	C	C	C	C	C	C
<b>Hydrocarbons</b>						
Mineral oil	C	C	C	C	C	C
Isododecane	C	C	C	C	C	C
Isopar H	C	C	C	C	C	C
Petrolatum	C	C	C	C	C	C
<b>Silicones</b>						
Dimethicone (20 cSt)	C	C	C	C	C	C
Dimethicone (100 cSt)	C	C	C	C	C	C
Dimethicone (350 cSt)	C	C	C	C	C	C
Dimethicone (1000 cSt)	C	C	C	C	C	C
Dimethicone (12,500 cSt)	C	C	C	C	C	C
Dimethicone and Dimethiconol	C	C	C	C	C	C
Hexamethyldisiloxane and Dimethiconol	C	C	C	C	C	C
Cyclopentasiloxane	C	C	C	C	C	C
<b>Glyceryl esters</b>						
Apricot Kernel Oil PEG-6 Esters	C	C	NC	C	C	NC
<b>Alkoxyated Alcohols</b>						
PEG-15 Stearyl Ether	C	C	C	C	C	C
PEG 8	NC	NC	NC	NC	NC	NC

C = Compatible, NC=Non Compatible (forms 2 phases)