

## *Dow Corning*<sup>®</sup> TI-2011 SPE Specialty Fluid

### **FEATURES & BENEFITS**

- Soluble in water and alcohols
- Low usage levels
- Compatible with excipient and active ingredients
- Foam builder
- Wetting agent
- Humectant, emollient in skin products

### **COMPOSITION**

- Silicone Polyether
- INCI Name: Peg-12 Dimethicone
- CAS No: 68937-54-2

### **REGULATORY SUPPORT**

Ingredient Information Package (IIP)

- Ingredient Regulatory Information
- Elemental Impurities
- Summary of Health Data or Opinion Letter

Formulation ingredient for topical consumer healthcare applications

### **APPLICATIONS**

- *Dow Corning*<sup>®</sup> TI-2011 SPE Specialty Fluid is commonly used as a solubilizer and compatibilizing agent for some actives and excipients. This silicone polyether is used in a wide range of dermatological consumer healthcare and medicated skin care applications.

### **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 <sup>1</sup>	Property	Unit	Result
0176 B	Appearance		Clear to hazy liquid, light amber color, no significant particulate
0080 A	Color	Gardner	0–4
0004 A	Viscosity at 25°C	cSt	260
1294 A	Cloud Point	°C	95–100

<sup>1</sup>CTM: Corporate Test Method, copies of CTMs are available upon request.

### **DESCRIPTION**

*Dow Corning*<sup>®</sup> TI-2011 SPE Specialty Fluid is a graft style hydrolytically stable silicone polyether surfactant with a calculated HLB of 12 (calculated by utilizing the wt% of EO/5 method).

### **SPECIFIC TESTING**

- Infrared identification on each batch.
- Tested every 2 years for elemental impurities according to <232> and ICH Q3D guidelines for metal impurities.

### **HOW TO USE**

*Dow Corning* TI-2011 SPE Specialty Fluid is soluble in water and alcohol, and is stable in aqueous systems. It can be added to heated mixtures up to 90°C (194°F).

### **REGULATORY INFORMATION**

*Dow Corning* TI-2011 SPE Specialty Fluid is produced at a Dow Corning manufacturing site registered as part of Dow Corning's global quality system according to ISO 9001:2008.

Dow Corning can provide an Ingredient Information Package (IIP) containing the following information:

- Ingredient Regulatory Information
- Elemental Impurities
- Summary of Health Data or Opinion Letter

### **HANDLING PRECAUTIONS PRODUCT SAFETY**

**INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE 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.**

## **USABLE LIFE AND STORAGE**

*Dow Corning* TI-2011 SPE Speciality Fluid has a shelf life of 30 months. Product should be stored at or below 25°C (77°F) in original unopened containers.

## **PACKAGING INFORMATION**

This product is available in 20 kg jerricans and 200 kg drums.

Samples are available in 500 ml bottles.

## **LIMITATIONS**

This product is neither tested nor represented as suitable for specific pharmaceutical use. However, should you wish to use this product in a pharmaceutical application, please contact Dow Corning to discuss such potential use.

It is the user's role responsibility to ensure that their intended use of these materials complies with all regulatory and legal requirements applicable to such use in each relevant jurisdiction including targeted geographic regions of manufacture and supply.

## **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. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customers' 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.

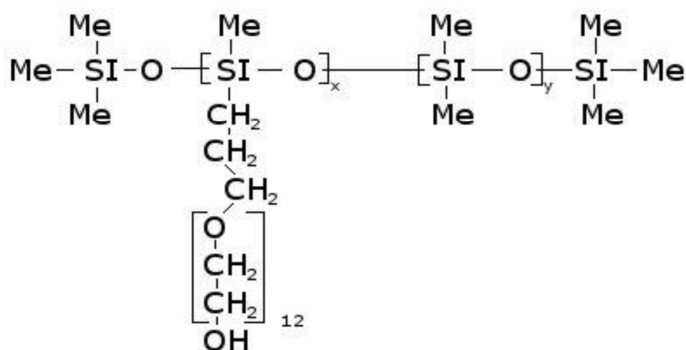
**TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

*We help you invent the future.*<sup>TM</sup>

**[dowcorning.com](http://dowcorning.com)**

**Figure 1: Chemical formula for Dow Corning® TI-2011 SPE Specialty Fluid**



**Table 1: Compatibility Data**

Type of Material	Dow Corning® TI-2011 SPE Specialty Fluid		
	1:9	5:5	9:1
<b>Esters:</b>			
C12-15 Alkyl Benzoate	NC	C	C
Caprylic/Capric Triglyceride	NC	NC	C
Coco-Caprylate/Caprate	NC	NC	NC
Diisopropyl Adipate	C	C	C
Diisostearyl Fumarate	NC	NC	NC
Diisostearyl Malate	C	C	C
Diocetyl Maleate	C	C	C
Isocetyl Stearate	NC	NC	NC
Isopropyl Isostearate	NC	NC	NC
Isopropyl Laurate	NC	NC	C
Isopropyl Myristate	NC	NC	C
Isopropyl Palmitate	NC	NC	C
Isopropyl Stearate	NC	NC	C
Isostearyl Benzoate	NC	NC	C
Myristyl Ether Acetate	NC	NC	C
Myristyl Lactate	NC	C	C
Octyldodecyl Stearoyl Stearate	NC	NC	C
Octylpalmitate	NC	NC	NC
Octylstearate	NC	NC	NC
Tridecyl Neopentanoate	NC	NC	C
Triisocetyl Citrate	NC	NC	NC
<b>Fatty Alcohols/Acids:</b>			
Lauryl Alcohol	NC	NC	NC
Octyldodecanol	C	NC	C
Oleyl Alcohol	C	C	C

C=Compatible, NC=Non Compatible

**Table 1: Compatibility Data (Continued)**

Type of Material	Dow Corning® TI-2011 SPE Specialty Fluid		
	1:9	5:5	9:1
<b>Organic Cosmetic Materials</b>			
<b>Glycerides:</b>			
Polyglyceryl-3 Diisostearate	NC	NC	NC
Glyceryl Trioctanate	NC	NC	C
<b>Hydrocarbons:</b>			
Mineral Oil (light)	NC	NC	NC
Mineral Oil	NC	NC	NC
<b>Hydrophilics:</b>			
Ethanol 200 Proof	C	C	C
Propylene Glycol	C	C	C
Water	C	C	C
<b>Sunscreen Actives:</b>			
Octyldimethyl PABA	C	C	C
Octyl Methoxycinnamate	C	C	C
<b>Vegetable Oils:</b>			
Almond Oil	NC	NC	NC
Castor Oil	C	C	C
Coconut Oil	NC	NC	NC
Corn Oil	NC	NC	NC
Jobba Oil	NC	NC	NC
Lanolin Oil	NC	NC	NC
Palm Oil	NC	NC	NC
Sesame Oil	NC	NC	NC
Soybean Oil	C	NC	NC
Sunflower Oil	NC	NC	NC
<b>Miscellaneous:</b>			
Isododecane	NC	NC	NC
Isopar H	NC	NC	NC
Polydecene	NC	NC	NC
<b>Dow Corning Materials:</b>			
Cyclomethicone (and) Dimethicone	NC	NC	NC
Dimethicone (and) Dimethiconol	NC	NC	NC
Cyclopentasiloxane (and) Dimethiconol	NC	NC	NC
Dimethicone (and) Dimethiconol	NC	NC	NC
Dimethicone	NC	NC	NC
Cyclomethicone	NC	NC	NC
Cetyl Dimethicone	NC	NC	NC
Stearyl Dimethicone	NC	NC	NC

Blend ratio is described in weight ratio as Silicone: Cosmetic Ingredients.