



## DOWSIL™ 1349 Emulsion

Aqueous emulsion of polydimethylsiloxane

### Features & Benefits

- Ready to use non-ionic emulsion
- Provides gloss and water repellency
- Good wetting and slip characteristics
- General purpose release agent including web release
- Imparts softening and lubrication to textiles
- Does not contain alkylphenolethoxylates (APEO)
- Good emulsion stability up to 50°C
- Good dilution stability up to 2% in water
- High solid content and provides low cost-in-use

### Applications

- As ingredient in polishes, DOWSIL™ 1349 Emulsion is used to provide good gloss with minimum smear in both car and furniture polish formulations
- Mould release of:
  - Rubber or plastic parts (stoppers, screw tops, bungs, etc.)
- Lubrication of:
  - Extruded rubber parts; conveyor belts
- Textile lubricant and fuzzing agent
- Surface treatment of Titanium dioxide

### Typical Properties

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

Property	Unit	Result
Appearance		Milky white emulsion
Nonvolatile content	%	62–66
pH		7.0–9.5
Emulsifier type		Non-ionic
Diluent		Water

**Description**

DOWSIL™ 1349 Emulsion is a 60% actives non-ionic emulsion formulated with a polydimethylsiloxane. Because of its non-ionic nature, it can be used in a variety of systems, such as non-ionic, anionic, cationic surfactant or polymer systems without forming a complex. Extensive testing has shown that DOWSIL™ 1349 Emulsion offers good dilution stability at 20% solids.

**How to Use**

DOWSIL™ 1349 Emulsion can be used as received or in a diluted form. For use as release/lubricant DOWSIL™ 1349 Emulsion may be applied as received in a diluted form by the conventional methods of spraying, dipping, wiping or brushing. Low hardness water should be used for dilution. A typical dilution is DOWSIL™ 1349 Emulsion (1 part w/w) to water (20 parts w/w) but the user should determine the best concentration and application method on a small scale before production. For use as fabric finish agent DOWSIL™ 1349 Emulsion can be applied to fabric by padding. The amount of emulsion required will depend on the fabric constructions and type of fabric used (natural, synthetic). Generally, between 6 g/1 and 25 g/1 bath concentration is recommended.

**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 DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

**Packaging  
Information**

DOWSIL™ 1349 Emulsion is available in 20 kg pails and 200 kg drums.

**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, [dow.com](http://dow.com) or consult your local Dow representative.

**Disposal  
Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

**Product  
Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

## Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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