

Technical Data Sheet

PR Silicone Fluid 350 CST Food Grade

Polydimethylsiloxane Base Fluid

PREMIERREPAK

Silicone Sealants • Silicone Compounds • Silicone Greases
Anti-Seize Pastes • Aerosol Lubricants • Silicone Fluids
Contract Packaging • Private Label • Turnkey Packaging

Dimethyl polysiloxane surface treatment, release material, lubricant and processing aid in food processing and packaging applications

FEATURES

- Inert • Harmless to metals and most plastics

COMPOSITION

- Dimethyl polysiloxane fluid

APPLICATIONS

- Primarily used as a surface treatment, release material, lubricant and processing aid in food processing and packaging applications. Some of these include rendering and edible oil processing.

TYPICAL PROPERTIES

Test	Unit	Result
Color		Water white
Consistency		Light syrup
Active Ingredients	percent	100
Specific Gravity at 25°C (77°F)		0.97

DESCRIPTION

PremierRepak Inc. PRSF 350 CST, Food Grade, is a clear, water- white, dimethyl polysiloxane fluid. This 100 percent silicone fluid is designed for use in food processing or in other applications where a food- grade product is desired.

PremierRepak Inc. PRSF 350 CST, Food Grade, can be added to nonstandardized foods in amounts up to 10 parts per million. These foam control applications are generally in nonaqueous systems such as vegetable oil processing.

FDA STATUS

PremierRepak Inc. PRSF 350 CST, Food Grade, as a defoaming agent is permissible in nonstandardized foods (other than milk) in amounts up to 10 parts per million under the Federal Food, Drug and Cosmetic Act. Any limitations on use in standardized foods, or the like, should be observed. This product can be used in the manufacture of such food-packaging materials as paper and paperboard, animal glues, adhesives and other packaging materials, subject to appropriate limitations on extractables. See FDA regulations 21CFR 173.340, 175.300, 176.210, 175.105, 176.170, 178.3120 and 177.1210.

USDA STATUS

Authorized by the USDA for use in federally inspected meat and poultry plants

EPA STATUS

Exempt from tolerances at 40 CFR 180.910, 40 CFR 180.920 and 40 CFR 180.960; refer to Form No. 26-1351 for information on antifoams for agrochemicals

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EUROPEAN COMMUNITY DIRECTIVES

- 95/2 Part 1/2 – Jam, jellies and marmalades as defined in Directive 79/693/EEC and similar fruit spreads, including low-calorie products: maximum 10 mg/kg. Soups and broths: maximum 10 mg/kg. Oils and fats for frying: maximum 10 mg/kg. Confectionery (excluding chocolate): maximum 10 mg/kg. Non-alcoholic flavored drinks: maximum 10 mg/L. Pineapple juice maximum: 10 mg/L. Canned and bottled fruit and vegetables: maximum 10 mg/kg. Chewing gum: maximum 100 mg/kg.
- 95/2 Part 2/2 – (pro memoria) Wine in accordance with Regulation (EEC) No. 1873/84 authorizing the offer or disposal for direct human consumption of certain imported wines that may have undergone oenological processes not provided for in Regulation (EEC) No. 337/79. Sçd...saft: maximum 10 mg/L. Batters: maximum 10 mg/kg. Cider (excluding cidre bouché): maximum 10 mg/L. Flavorings: maximum 10 mg/kg.
- 90/128/EC – The EU Directive 2002/72/EC and its amendments up to and including Directive 2004/19/EC, relating to plastic materials and articles intended to come into contact with foodstuffs.

ORIGIN OF INGREDIENTS

PremierRepak Inc. PRSF 350 CST, Food Grade, contains ingredients that have been prepared solely from synthetic sources. It does not contain any genetically modified organisms or materials of animal origin.

HOW TO USE

Amount Needed for Defoaming

In nonaqueous food defoaming applications, the user should start addition at a concentration that will not exceed 10 parts per million in the finished product. From that starting point, the user should reduce the amount of defoamer until the minimum quantity that will effectively control the foam is determined.

Methods of Introduction into Foamer

PremierRepak Inc. PRSF 350 CST, Food Grade, can be introduced into the foaming system in two ways: (1) as supplied or (2) as a mixture with one of the components of the foaming system.

Use as Supplied

In some applications, the defoamer can be used to limit foam height by the simple method of wiping onto an element of the processing equipment. For example, the defoamer is often wiped on nozzles of bottle-filling machines to knock down foam as it rises in the neck of the bottle.

Mixing with a Component of the Foamer

In some processing applications, the silicone foam preventive can be mechanically dispersed in one of the ingredients of the foaming system using a high-speed blender or propeller-type mixer. This mixture is then added directly to the batch according to the normal procedure for the particular process.

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Conversion Table

In many applications, it may be desirable to convert figures in parts per million to other units. The table below gives some equivalents:

Parts Per Million of Antifoam (ppm)	Percent	Ounces per 1000 Gallons ¹	Ounces per 1000 Pounds
1	0.0001	0.128	0.016
10	0.001	1.28	0.16
33.3	0.003	4.26	0.53
100	0.01	12.8	1.6

¹When foamer has specific gravity of 1.000.

1 ounce = 2 tablespoons = 6 teaspoons

1 pound = 2 cups = 1 pint

To calculate the amount of antifoam required, consult the simple addition rate chart on page 4.

Use in Other Processing Applications

In food processing and packaging applications, the silicone fluid can be applied without dilution by wiping or spraying. Better lubrication and release are often obtained by applying a thin film after first diluting the fluid with a suitable solvent to a concentration of one half to three percent of silicone.

Note: FDA status, lack of any residue and flammability of the solvent must, of course, be considered for the particular use.

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 BY CALLING PREMIERREPAK INC. AT 885-737-2500

USABLE LIFE AND STORAGE

This product has a usable life of 60 months from the date of production. Refer to product packaging for "Use By" date. Store at ambient temperatures.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses. Not for human injection.

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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.

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.

It is the user's responsibility to determine the suitability of any PremierRepak Inc. product for his intended use or particular production requirement. Because the use of our products is beyond our control, we are not responsible for the results obtained.

We make no warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose and undertake and accept no liabilities, except as expressly set forth on our product labels. In every case, the Company's liability is limited to replacing such quantities of the product proven to be defective. The Company disclaims any liability for incidental, liquidated labor or any consequential damages arising from the use of products.

No representative of the Company is authorized to grant any warranty or to waive this limitation of liability.

The warranty provided herein and the obligation and liabilities of seller there under are exclusive and in lieu of and buyer hereby waives all other remedies, warranties, guarantees or liabilities, express or implied, arising by law or otherwise, including without limitation, any obligations of the seller with respect to consequential damages whether or not occasioned by seller's negligence. This warranty shall not be extended, altered or varied except by a written instrument signed by seller and buyer.

INSTRUCTIONS:

On the left – hand scale, find the parts per million of 200 Fluid that you wish to use. Then, on the right – hand scale, located the number of foamer in your system. With a straight – edge, draw a line through these points. The amount of 200 Fluid can be read where this line crosses the center scale; ounces on the right-hand portion of the center scale and grams on the left – handed portion of the same scale.

Example it is desired to use 10 ppm of 200 Fluid to defoam 1000 gallons (8335 pounds) of foamer. A line (dotted) is drawn between these points. Its crosses the center line at approximately 1.28 ounces.

See Next Page

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ADDITION RATE CHART

To calculate the amount of defoamer for your applications, consult the simple addition rate chart below

Parts per Million of PR Silicone Fluid (as supplied)	Amt of PR Silicone Fluid Required		Quantity of Foamer	
	cc's or Grams	Ounces: Weight or Fluid	Pounds	Gallons (1.00 Specific Gravity)

