

# Degressal<sup>®</sup> PLB 847

® = Registered trademark of BASF

**Chemical nature**

Formulation based on modified polyalkoxyester.

**PRD-Nos.\***

30568089

\*BASF's commercial product numbers.

**Properties**

Degressal® PLB 847 is a slightly cloudy amber yellow liquid and tends to form a sediment.

Some physical properties are listed in the table below. These are typical values only, and not all of them are monitored on a regular basis.

Degressal® PLB 847	Unit	Value
Physical form (23 °C)		liquid
Concentration	%	approx. 100
Density (DIN 51757, method 3, 20 °C)	g/cm <sup>3</sup>	approx. 1.01
Viscosity (EN 12092, Brookfield, LVT, 25 °C)	mPa·s	approx. 500
Pour point (ISO 3016)	°C	approx. -30
Acid number (ISO 2114)	mg KOH/g	approx. 2
pH-value (EN 1262, Solution B)*		approx. 2

The above information is correct at the time of going to press. It does not necessarily form part of the product specification.

A detailed product specification is available from your local BASF representative.

\* The pH of Degressal® PLB 847 can fall slightly in storage, but this has no effect on its performance.

**Solubility****The solubility of Degressal® PLB 847 at 23 °C (10% solution)**

	Degressal® PLB 847
Distilled water	–
Potable water (approx. 2.9 mmol Ca ions/l)	–
5% caustic soda	–
5% hydrochloric acid	–
5% saline solution	–
Alcohols	+
Petroleum oils	+
Aromatic hydrocarbons	+

+ = *Clear solution*

O = *Opalescent solution*

– = *Insoluble*

As the above table shows, Degressal® PLB 847 is insoluble in water, but it is fairly easy to solubilize it in aqueous solutions with hydrotropes, glycols, alcohols or surfactants.

**Shelf life**

Provided it is stored properly and drums are kept tightly sealed, Degressal® PLB 847 has a shelf life of at least two years in its original packaging.

**Storage**

- a) Degressal® PLB 847 should be stored indoors in the original packaging, which should be kept tightly sealed.
- b) Liquid that has solidified or that shows signs of precipitation should be heated to approx. 20 °C before it is processed.
- c) Drums that have solidified or that have begun to form a sediment should be reconstituted by gentle heating, preferably in a heating cabinet. The temperature must not be allowed to exceed 20 °C. This also applies if drums are heated by external electrical elements.  
Internal electrical elements should not be used because of the localized anomalies in temperature that they cause.
- d) Degressal® PLB 847 must be blanketed with nitrogen if it is stored in heated tanks (at approx. 20 °C) to prevent it from coming into contact with air. Gentle, constant stirring helps to prevent it being discolored as a result of prolonged contact with electrical elements or external heating coils.

**Materials**

The following materials can be used for tanks and drums:

- a) Stainless steel 1.4541 - AISI 321 stainless steel (X6 CrNiTi 1810)
- b) Stainless steel 1.4571 - AISI 316 Ti stainless steel (X6 CrNiMoTi 17122)
- c) Stainless steel 1.4306 - AISI 321 L stainless steel (X2 CrNi 1911)

**Application**

Degressal® PLB 847 is a hydrophobic versatile defoamer for the chemical industry, mainly designed for construction industry. It has a high deaerating power at all pH and temperature conditions. It may be used as is or, as an aqueous emulsion in the foaming media.

It is especially useful as deaerator for concrete admixtures where Polycarboxylate Ether (PCE) entrain too much air into mortar/concrete. The recommended dosage varies from 0.1% to 2% by weight of PCE.

The typical dosage for other applications varies from 0.01 to 0.1% (based on 100% foaming medium). The optimal defoamer concentration depends on the respective conditions and should be defined via orienting experiments.

## Safety

We know of no ill effects that could have resulted from using Degressal® PLB 847 for the purpose for which it is intended and from processing it in accordance with current practice.

According to the experience that we have gained over many years and other information at our disposal, Degressal® PLB 847 do not exert any harmful effects on health, provided if it is used properly, due attention is given to the precautions necessary for handling chemicals, and the information and advice given in our Safety Data Sheets are observed.

Please refer to the latest Safety Data Sheet for detailed information on product safety.

## Note

This document, or any answers or information provided herein by BASF, does not constitute a legally binding obligation of BASF. While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. It does not relieve our customers from the obligation to perform a full inspection of the products upon delivery or any other obligation. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE.

June 2014