



Technical Data Sheet

ICC-Propoxylated Products

Trade Name: PPG 500

Chemical Name: PPG 500 Polyether Polyol

PPG 500 is a 100% active, polypropylene glycol surfactant with an average molecular weight of 500. Polyglycol 500 is colorless, clear, viscous liquid in appearance at room temperature with a mild, sweet odor. PPG 500 is completely soluble in water at 25 °C.

The terminal end-groups are predominantly secondary hydroxyls and have a relatively low reactivity. It is compatible with most polyether polyols and can be blended with other diols or triols to achieve desirable modifications of product properties. This polyol is acidified with a low level of phosphoric acid, making it suitable for use in isocyanate-terminated prepolymers.

Application

- PPG 500 is water-soluble and can be used as a chemical intermediate for fatty acid esters, in mold release applications, in lubricant bases and as components for urethane resins.
- This product is used as dust adhesive fluids.
- solvent/couplers for inks and pesticide formulations.
- PPG 500 is also used to make resins, fatty acid esters, lubricants, metal working fluids and as plasticizer.

Storage and Handling

PPG 500 polyol is slightly hygroscopic and may absorb water. Containers should be kept tightly closed and protected from contamination with moisture and foreign materials, which can adversely affect product quality.

This polyol can become quite viscous at low temperatures. For ease of handling, storage temperatures between 20°C (68°F) and 60°C (140°F) are recommended.

PPG 500 is dispatched in polyethylene or corrugated steel, galvanized or carbon steel drums.

Shelf life: PPG 500 is stable for 2 years when stored in the original sealed containers in a cool and dry place.

TEST	STANDARD TEST METHOD	RESULT
Appearance	—	Clear, liquid
Hydroxyl value, mg KOH/g	ASTM D-4252	200-220
Density at 25°C, g/ml	ASTM D-1298	1.007±0.02
Water, percent	ASTM E-203	Max. 0.03

Safety

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling PPG 500 polyol. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling.

Health Effects

Inhalation: Remove victim from exposure to fresh air immediately, if not breathing, give artificial respiration; if breathing is difficult, give medical oxygen. Get medical aid immediately.

Ingestion: Rinse mouth with plenty of milk or water (only if victim is conscious and alert). Get medical aid immediately.

Skin Contact: If skin contact occurs, wash the affected area with plenty of water and a neutral soap for a minimum of 5 minutes.

Eye Contact: If eye contact occurs, wash with plenty of clean water or amphoteric eye solution for a minimum of 15 minutes, holding the eyes open, medical advice should be followed.