



Technical Data Sheet

ICC-Propoxylated Products

Trade Name: PPG 4000

Chemical Name: PPG 4000 Polyether Polyol

PPG 4000 is a 100% active, polypropylene glycol surfactant with an average molecular weight of 4000. **PPG 4000** is colorless, clear, viscous liquid in appearance at room temperature with a mild, sweet odor. It has a higher pour point and, unlike the lower molecular weight PPGs, is partially soluble in water at 25 °C. It loses its water solubility at higher temperatures. Like all polypropylene glycols, **PPG 4000** is soluble in all proportions with any organic solids and liquids, the main exception being long chain aliphatic hydrocarbons. **PPG 4000** possesses excellent lubricity and has a low vapor pressure. Under extreme heating conditions it does not form coke nor does it form a varnish. Decomposition products are low boiling products that are either lost as volatiles or soluble in the polypropylene glycol.

Application

PPG 4000 is suitable as an antifoam agent in latex formulations, paper and pulp processing, emulsion paints, sugar beet processing, fermentation vats in the manufacture of various products. Other applications include its use as a cosmetic ingredient, a mound release agent, an intermediate for e.g., resin and as plasticizer. **PPG 4000** can also be used as lubricant base; its intrinsic lubricity may be further enhanced by the use of additives.

Storage and Handling

PPG 4000 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 4000 is dispatched in polyethylene or corrugated steel, galvanized or carbon steel drums.

TEST	STANDARD TEST METHOD	RESULT
Appearance	—	Clear, liquid
Color at 50°C, APHA	ASTM D-1209	Max. 25
Hydroxyl value, mg KOH/g	ASTM D-4252	27-29
Viscosity at 25°C, cP	ASTM D-445	780-970
Density at 25°C, g/ml	ASTM D-1298	1.007
Water, percent	ASTM E-203	Max. 0.03

Shelf life: **PPG 4000** is stable for 2 years when stored in the original sealed containers in a cool and dry place.

Safety

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling **PPG 4000** 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.

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