



Technical Data Sheet

E/O, P/O Copolymer Products

Trade Name: Polyol 93

Chemical Name: EO-PO Block Copolymer

Block Copolymer Surfactant

I.C.C manufactures a wide range of low foaming surfactants designed to provide the appropriate functionality for all of our customers application needs. We help you to get your foam under control.

Polyol 93 is a block copolymer surfactant terminating in primary hydroxyl groups. A nonionic surfactant that is 100% active and relatively nontoxic.

Polyol 93 is an amphiphilic EO-PO Block Copolymer that can form spherical core-shell micelles in aqueous solution. The micellar core consists of the hydrophobic blocks and the shell region consists of the hydrophilic blocks.

Application

Block copolymers are used in numerous applications such as cosmetics, detergency, textiles, emulsification, polyurethane foams and drug adjuvant, because of their ability to form various aggregates in water and their low toxicity.

Storage and Handling

Polyol 93 is dispatched in polyethylene or corrugated steel, galvanized or carbon steel drums.

Shelf life

Polyol 93 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 Polyol 93. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling.

TEST	STANDARD TEST METHOD	STANDARD
Appearance	—	Liquid
Color at 50°C, APHA	ASTM D-1209	Max. 50
Density at 25°C, g/ml	ASTM D-1298	1.01±0.01
pH (5% aqueous)	ASTM D-1172	5-7
Viscosity at 25°C, cP	ASTM D-445	400±50
Hydroxyl value, mg KOH/g	ASTM D-4252	40±2
Water, percent	ASTM E-203	Max. 0.1

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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