



Technical Data Sheet

ICC-E/O, P/O Copolymer Products

Trade Name: Copolymer EP 2584

Chemical Name: C12/C15 oxo alcohol EO-PO adduct

Product Description: Excellent low foaming surfactant for all types of cleaners and laundry liquids

Low foaming surfactants, Alcohol EO/PO adduct

The history of low foaming nonionic surfactants began with the discovery that surface active substances can be obtained by addition of ethylene oxide (EO) to polymers of propylene oxide (PO). These block polymers based on propylene glycols were supplemented by ethylene diamine based EO/PO adducts. We extended our product range with alcohol ethoxylates modified by adding a well-defined amount of PO or end capping by a short alkyl chain.

These low foaming nonionic have excellent surface activity and most of them are ultimately biodegradable and not dangerous to the environment.

These products are all soluble in water, stable against water hardness and stable against acids and bases. They are mostly used as low foaming cleaning agents mainly for mild alkaline or neutral spray cleaners.

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.

Application

The fields of application vary according to the cloud points of the products. In many technical cleaning processes and in some special household applications, like rinse aids in machine dishwashing, foaming has to be suppressed. Foaming and wetting are temperature dependent processes. To combine good wetting with low foaming, we propose to select surfactants or combinations of them with cloud points near to the expected operating temperatures.

we offer optimal solutions for all kind of regional needs for laundry, dishwashing and household cleaning, as well as industrial and institutional cleaning.

Storage and Handling

Copolymer EP 2584 is dispatched in polyethylene or corrugated steel, galvanized or carbon steel drums.

Shelf life: Copolymer EP 2584 is stable for 2 years when stored in the original sealed containers in a cool and dry place.

TEST	STANDARD TEST METHOD	STANDARD	RESULTS
Active content; Appearance (%)	—	100; liquid	Confirm
Cloud point, °C (10% in 25% BDG)	ASTM D-2024	47,0-49,0	50
Cloud point, °C (1% in Water)	ASTM D-2024	39,0-42,0	45
HLB, calculated	Calculated	12	12
pH (1% in water)	ASTM D-1172	6-8	6.5-7
Density at 25°C, g/ml	ASTM D-1298	—	0.986
Viscosity at 25°C, cp	ASTM D-445	—	46
Color at 50°C, APHA	ASTM D-1209	—	22

Safety

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

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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