



Technical Data Sheet

ICC-Ethoxylated Products

Trade Name: NPE6

Chemical Name: NONYL PHENOL ETHOXYLATE 6

Grade: Chemical

CAS Name: poly ethylene glycol isononyl phenol ether

Nonyl phenol Ethoxylates are non-ionic surfactants obtained by adding Ethylene oxide (EO) to nonyl phenol. The nonyl phenol Ethoxylates designated by the name "NPE" followed by a number indicating the average number of ethylene oxide molecules added.

Application

NPE6 is a non-ionic surfactant for the detergents and chemical industries. It used in textile processing, leathers, agrochemicals, latex and waxes, paints and varnishes, petroleum as a detergent, emulsifying and lubricant agent.

Storage and Handling

NPE6 should be stored in a dry covered area at a distance from sources of heat or ignition.

The extinguishing agents are carbon dioxide and dry chemical powder.

Recommended materials to store, handling and distribution NPE6 are stainless steel, carbon steel, galvanized steel and carbon steel coated with epoxy or PVC or polyester in drum or tank. These products exhibit a slow increase in color when held for extended periods of time at above about 80°C in the presence of air.

Shelf life: 24 months from the date of manufacture.

TEST	STANDARD TEST METHOD	RESULT
Appearance at 20°C	—	Clear viscous liquid
Color at 50°C, APHA	ASTM D-1209	Max. 25
Average molecular weight, g/mol	Calculated	470-490
pH (5% in water)	ASTM D-1172	5-7
Cloud point, °C (10% in 25% BDG)	ASTM D-2024	57-62
Density at 25°C, g/ml	ASTM D-1298	1.04±0.02
Hydroxyl value, mg KOH/g	ASTM D-4252	112-120
HLB, calculated	Calculated	10.8-11.3
Water, percent	ASTM E-203	Max. 0.5
Polyethylene glycol, percent	ASTM D-4252	Max. 2.0
Viscosity at 25°C, cP	ASTM D-445	252±10

Safety

NPE6 is not irritating to the eyes or skin, however when handling pure chemical products, we recommend the use of individual protection equipment such as PVC gloves, safety goggles and an apron.

In the event of accidental contact, proceed as follows:

Eyes: wash immediately with plenty of water for at least 15 minutes.

Skin: wash the area affected with plenty of water and remove contaminated clothing.

Ingestion: seek medical care urgently.