



ELSURFAC – NPE10™ (Nonylphenol)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Colorless clear viscous liquid
Physical Form	Colorless clear viscous liquid
Odor	Mild, slight phenolic
Molecular Weight	630-660 g/mol
Density / Specific Gravity	1.05 - 1.07 g/cm ³ @ 25°C
Viscosity	230-260 cSt @ 25°C
Refractive Index	1.511 @ 20°C
pH (1% Aq.)	6 - 8
HLB Value	~13.5
Chemical Properties	
pKa	14.36 ± 0.10 (Predicted)
Ionic Nature	Non-ionic
Incompatibilities	Strong oxidizing agents, strong acids, strong bases.
Thermal Properties	
Melting Point	5 °C
Boiling Point	> 250 °C
Flash Point	197 °C (closed cup)
Autoignition Temperature	> 300 °C
Decomposition Temperature	Decomposes on heating above 250 °C.
Thermal Stability	Stable under recommended storage conditions. Avoid direct heating and temperature extremes.
Solubility	
Solubility in Water	Completely soluble / Miscible
Solubility in Ethanol	Soluble



Property	Specification
Solubility in Chloroform	Soluble in chlorinated solvents

2. Processing Methods

Environmentally Friendly Rust Remover

This formulation is designed for effective rust removal with simple, low-cost ingredients.

Key Ingredients	Indicative Dosage (% w/w)
Phosphoric Acid	0.3 - 1.0%
Citric Acid	0.3 - 1.0%
Nonylphenol Ethoxylate (NP-10)	1.9%
Hexamethylenetetramine	0.9 - 2.9%
Dodecyl Sulfate	1.3 - 3.8%
Ammonium Chloride	0.3 - 1.0%
Tartaric Acid	0.6 - 1.9%
Deionized Water	87.1 - 94.4%



Metal Polishing Agent

A formulation for polishing metal surfaces.

Key Ingredients	Indicative Dosage (% w/w)
Sodium Dodecylbenzene Sulfonate	2.0 - 7.0%
Sodium Oleate	1.5 - 5.0%
Ethanol	8.0 - 15.0%
Nonylphenol Ethoxylate (NP-10)	4.0 - 8.0%
Polysorbate 80	5.0 - 8.0%
Oleic Acid Triethanolamide	0.2 - 0.8%
Cocamide DEA Phosphate	1.0 - 4.0%
Defoaming Agent	1.0 - 4.0%
Sodium Phosphate	0.5 - 2.5%
Sodium Citrate	1.0 - 3.0%
Cysteine LBGAS	0.3 - 1.2%
Potassium Hydroxide	0.35 - 1.0%
Water	Balance to 100%

3. Dosing by Application

Application	Recommended / Max Dosage
Emulsion Polymerization	2% active based on monomers

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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