



*Product Focus • Customer Commitment • Performance Flexibility*

**NAXONAC® 690-50**

**Product Data Sheet**

## ALKYL PHENOL ETHER PHOSPHATE

**Description:**

Catexel Nease LLC offers a growing list of phosphate esters under the NAXONAC® trade name. As an anionic surfactant, one of the main advantages of phosphate esters is their stability and solubility in alkali systems. They can be used as hydrotropes to couple nonionic surfactants systems which are not soluble and at the same time increase wetting and detergency properties. The presence of the phosphate group imparts some interactions with metallic surfaces, thereby exhibiting some anti-corrosion and metal-adhesion characteristics. They can be used as additives in oil and water-soluble lubricant systems to improve lubricity, anti-frictional properties of the formula. Phosphate esters also find use as emulsifiers in emulsion polymerization.

**CAS #**  
Mixture

NAXONAC® 690-50 is an alkyl phenol ether phosphate designed to meet your needs as an emulsifier imparting corrosion resistance, in emulsion polymerization of vinyl acetate and highly carboxylated acrylics and to enhance detergency in alkaline systems. Does not discolor when used to dedust alkaline powders.

**Typical Properties:**

Appearance	Colorless, pale yellow liquid
Specific Gravity @ 25°C	1.10
Density (lbs/gal)	9.17
Flash Point, (open cup)	> 400 °F
Melting Point	Approximately 5 - 13°C
Boiling Point, °F	> 500 °F
Solubility in Water	Soluble

**Product**

**Specifications:**

Property	Specification
Appearance	Colorless, pale yellow liquid
Water Content, wt. %	48.75 – 51.25
Monoester, %	18 – 23.5
Solids, %	48.75 – 51.25
pH	1.5 – 2.5
Color (Gardner)	2 Maximum

**Applications:**

Industrial Cleaners, Metal Prep and Working, Personal Care, Textile Dye Manufacture

**Storage and**

**Handling:**

Keep container tightly closed when not in use. Store in cool and well ventilated area. Do not store in unlined metal containers as the phosphoric acid will react with the metal to liberate flammable hydrogen gas.

**Availability:**

55 gallon drum, 275 gallon tote

**Chemical Control**

This product is in compliance with the inventory listing requirements of the Chemical Control Laws in the following countries: United States of America, Canada (NDSL), China, and Viet Nam.

**Law Status:**

**Transport Regulations**

Shipping Description: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Phosphoric acid)  
Hazard Class: 8      ID Number: UN 3264      Packing Group: III      Label: Corrosive

**Catexel Nease LLC**

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Limited Warranty

The products sold by Nease Co., LLC ("Seller") shall conform to the Seller's current published specifications. Seller makes no other warranty, express or implied, including warranty of merchantability or fitness for particular use, whether product is used singly or in combination with other substances or in any process. Nothing contained herein should be considered as a recommendation for use of any product or method in violation of any valid patent now effective or which may issue hereafter. Prior testing for fitness for use, and compliance with all applicable statutes by the user is a strict condition on the sale of any and all of Seller's products.