



Product Focus • Customer Commitment • Performance Flexibility

**NAXONAC® 1595**

**Product Data Sheet**

## Polyoxyethylene 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 #**

51811-79-1  
(Alt: 68412-53)

Catexel Nease LLC has the capability to manufacturer phosphate esters using phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) and polyphosphoric acid (PPA). Please inquiry with Sales & Marketing if needing a product not currently listed.

NAXONAC® 1595 as a surfactant can be used as emulsifier in agrochemical and cleaning formulations. It is stable at high temperature, high alkaline and electrolyte systems.

**Typical Properties:**

Appearance	Clear to brown liquid, viscous
Specific Gravity @ 25°C	1.12
Flash Point, (open cup)	> 200 °F
Solubility in Water	Soluble

**Product**

**Specifications:**

Property	Specification
Appearance	Clear, amber liquid
pH, 1% (aq)	1.5-2.5
Water Content, wt. %	0.5 Maximum
pH (1% aqueous)	1.5 – 2.5
Acid number (1 <sup>st</sup> infl.)	62-68
Acid number (2 <sup>nd</sup> infl.)	108-122
Acid number (3 <sup>rd</sup> infl.)	116-128
Monoester %	50 - 70
Diester %	10 -40
Mono: Diester Ratio	1.65 – 5.00
H <sub>3</sub> PO <sub>4</sub> %	3.0 Max.
Total Phosphated %	78 - 95

**Applications:**

Agrochemical and cleaning formulations

**Physical data:**

Foam Height (Ross Miles at 0.1% aqueous at 25°C)-----8.8cm (initial) & 8.0cm (5mins)  
Drave wetting test (3-g hook sink time at 0.3%)----- 64 seconds  
Cloud point at 1% ( in 10% caustic solution)-----72°C  
Surface tension at 25°C (0.1% aqueous solution)-----34.6 dynes/cm

**Storage and**

**Handling:**

Store covered in a dry, well ventilated area. Keep container tightly closed when not in use. Prevent from freezing. Store material above 20°C (68°F).

**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), Europe, Korea, and Japan

**Law Status:**

**Transport Regulations**

Shipping Description: DOT Non-Regulated  
Hazard Class: NA ID Number: NA Packing Group: NA Label: None

**Catexel Nease LLC**

9774 Windisch Road, West Chester OH 45069  
Customer Service 888-762-7373  
www.catexel.com

Limited Warranty

The products sold by Catexel Nease 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.