



Product Focus • Customer Commitment • Performance Flexibility

NAXONAC® 1595

Product Data Sheet

Polyoxyethylene alkyl phenol ether, Phosphate

Description:

Nease Co. 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)

Nease Co. LLC has the capability to manufacturer phosphate esters using phosphorus pentoxide (P₂O₅) 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 st infl.)	62-68
Acid number (2 nd infl.)	108-122
Acid number (3 rd infl.)	116-128
Monoester %	50 - 70
Diester %	10 -40
Mono: Diester Ratio	1.65 – 5.00
H ₃ PO ₄ %	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 Law Status:

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

Transport Regulations

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

Nease Co. 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 statues by the user is a strict condition on the sale of any and all of Seller’s products.