

# Data Sheet



## LAKELAND PAE 124

### INTRODUCTION

Lakeland PAE 124 is the phosphate ester of a straight chain coco alcohol. The method of manufacture ensures that both the mono- and di-ester forms are present. Lakeland PAE 124 is the form of a free acid.

### SPECIFICATION

Appearance <sub>(A10)</sub>	Clear Viscous Pale Yellow Liquid
Acid Value <sub>(A1)</sub>	130 – 150 mg KOH/g
% Orthophosphate <sub>(O1)</sub>	1 Maximum
Colour, Gardner <sub>(G1)</sub>	3 Maximum

( ) Denotes Lakeland Analysis Number

### APPLICATIONS

PAE 124 is an excellent emulsifier, it is also a good load carrier, especially for use in metal working fluids. As the potassium salt it is a good detergent/wetting agent for use in highly built/highly alkaline formulations.

### PROPERTIES

Chemical type	Phosphated alcohol
Solubility	Soluble in propan-2-ol, petrol, White spirit and most other organic solvents and oils. Soluble in water when neutralised (as Na <sup>+</sup> or K <sup>+</sup> salts)
Phosphorus content	5 %
Mono Diester ratio	1 : 1 typical
Orthophosphate content	2.0 % typical

**Phosphate Esters**

## HANDLING & STORAGE

PAE 124 is irritant and as such should be handled wearing protective clothing, gloves, goggles and overalls. No problems should arise as long as good standards of housekeeping and safe working practice are maintained.

The viscosity will be affected by storage at low temperature. Lakeland PAE 124 is a viscous liquid with a pour point of 15°C and a melting point of 5°C.

The product can be warmed to 30-35°C to make handling easier. However, prolonged storage at elevated temperatures may cause colour deterioration.

This product will be stable for at least 12 months if stored in unopened sealed containers at temperatures between 0°C and 35°C. If these temperature limits are exceeded then physical changes may occur. Warming/cooling of the product to room temperature will facilitate reconstitution.

## TRANSPORT

TARIFF HEADING: 2919.90.00                      Non hazardous

## PACKAGING

1000 ltr IBC's	1000 kg nett
205 ltr plastic drums	200 kg nett
25 ltr plastic drums	25 kg nett

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