

PALMFONATE Methyl Ester Sulphonate

Alcance Creating, Developing & Delivering Solutions

A Living Innovation





Methyl Ester Sulphonate **A LIVING INNOVATION**





Excellent detergency even in the toughest of conditions



 PALMFONATE

 Excellent Detergency

SUPERIOR HARD WATER TOLERANCE

MES vs Other Anionic Surfactants

Comparison





PALMFONATE ____



DISHWASH PLATE COUNT PERFORMANCE

Plate Count Improvement





Mild to skin



SAFE & GENTLE

Liposome Leakage Chart

Comparison

FAEO > SLES > LAS > CAPB > MES





Gentle to Environment

PALMFONATE MES MEETS READILY BIODEGRADABLE CRITERIA

OECD 301B Biodegradability



Test chamber carbon dioxide (CO_2) measurement as the percent of theoretical maximum (% ThCO₂) derived from the test sample. Average values are plotted with the standard deviation (+/- SD) for the time course of the test. Curve fit is applied to calculate the statistical confidence for 95% (blue) and 95% prediction (red) boundary lines. The 10 day biodegradation window boundary is shown by the light shaded area.

Satisfaction From Us To You

25 YEARS OLEOCHEMICALS EXPERTISE BACKED BY FULLY INTEGRATED BUSINESS CHAIN



PALMFONATE _____

Methyl Ester Sulphonate



_	PALMFONATE MES		
WE OFFER	6709F	6728	6703
Active, %	90	80	30
Zeolite	_	10	-
Physical Form	Flakes	Powder	Paste
Pack Sizes	20kg bag 600kg bulk bag	25kg bag 700kg bulk bag	200kg HDPE drum, ISO tank

STORAGE AND HANDLING

Stacking Height	Single stacking
Recommended Storage Temperature	35°C
Recommended Storage Humidity	Maximum 80%
Store in Sheltered Area	Away from sunlight and rain



Guided Formulations

PALMFONATE -

Guided Formulations

Heavy Duty Powder Detergent

Procedure

Add Parts A, B and C ingredients to the vessel while mixing. Allow to mix until homogenous. Desired fragrance and colour may be added.

Ingredients	% wt./wt.	Function
Part A		
Sodium Palmate / Sodium Palm Kernelate*	0.20	Co-Surfactant
IMBENTIN - Fatty Alcohol Ethoxylate (25EO)*	1.00	Co-Surfactant
Part B		
Sodium Sulphate	31.05	Filler
Sodium Citrate	10.00	Builder
PALMFONATE 6728	15.00	Surfactant
Sodium Carbonate	10.00	Builder
Citric Acid	2.00	pH Modifier
Sodium Dodecylbenzene Sulfonate, 80%*	15.00	Surfactant
Sodium Metasilicate Nonahydrate	15.00	Builder
Part C		
Protease	0.40	Enzyme
Amylase	0.10	Enzyme
Benzenesulfonicacid,2,2'-([1,1'-biphenyl]-4, 4'-diyldi-2,1- ethenediyl)bis-, disodium salt	0.25	Optical Brightener
Fragrance	As Needed	Fragrance
Colour	As Needed	Colour
*Ingredients offered by KLK OLEO		





PALMFONATE ______

Heavy Duty Liquid Laundry Detergent

Procedure

If using **PALMFONATE 6703**: Pre-condition at 45°C. Add water to the vessel followed by Part A in sequence, stirring to allow each ingredient to fully dissolve before adding the next. Add Parts B, C, D and E ingredients, stirring to allow each ingredient to fully dissolve before adding the next. Adjust the pH using NaOH or LABSA as required. Then add desired fragrance and preservative.

If using **PALMFONATE 6709F**: Heat water in the vessel to 70°C. Add Part A in sequence, stirring to allow each ingredient to fully dissolve before adding the next. Add Parts B, C, D and E ingredients, stirring to allow each ingredient to fully dissolve before adding the next. Adjust the pH using NaOH or LABSA as required. Then add desired fragrance and preservative.

Typical Properties

Appearance Clarity (%T at 800nm) pH (neat) Viscosity (cP) Stability

Clear 97 7 - 8 2000 - 3000 Pass 12 weeks at 4°C, room temperature & 45°C Pass 5 freeze-thaw cycles

Ingredients	% wt./wt.	Function
PALMFONATE	6703 6709F	
Part A		
Deionized Water	46.9 57.2	Diluent
NaOH, 50%	2.0	pH Modifier
LABSA, 96%	10.0	Surfactant
Part B		
PALMFONATE	13.3 4.4	Co-Surfactant
TENSAGEX SLES, 25%	5* 16.8	Co-Surfactant
Part C		
IMBENTIN Fatty Alcoho	7.0	Solubilisor
Ethoxylate (7EO)*	7.0	Solubilisei
Part D		
KOTILEN Polysorbate-2	20* 1.0	Viscosity Modifier
Part E		
PALMOCOL CDEA*	3.0	Viscosity Modifier
Part F		
Fragrance	As Needed	Fragrance
Preservative	As Needed	Preservative

*Ingredients offered by KLK OLEO





PALMFONATE -

Guided Formulations

Plant-based and Eco-friendly Liquid Laundry Detergent

Procedure

If using **PALMFONATE 6703**: Pre-condition at 45°C. Add water to the vessel followed by Part A in sequence, stirring to allow each ingredient to fully dissolve before adding the next. Add Parts B, C, D and E ingredients, stirring to allow each ingredient to fully dissolve before adding the next. Adjust the pH using NaOH or LABSA 96% as required. Then add desired fragrance and preservative.

If using **PALMFONATE 6709F**: Heat water in the vessel to 70°C. Add Part A in sequence, stirring to allow each ingredient to fully dissolve before adding the next. Add Parts B, C, D and E ingredients, stirring to allow each ingredient to fully dissolve before adding the next. Adjust the pH using NaOH or LABSA as required. Then add desired fragrance and preservative.

Typical Properties

Appearance Clarity (%T at 800nm) pH (neat) Viscosity (cP) Stability

58 5.5 - 7.5 1500 - 2500 Pass 12 weeks at 4°C, room temperature & 45°C Pass 5 freeze-thaw cycles

Translucent

Ingredients	% wt./wt.	Function
PALMFONATE	6703 6709F	
Part A		
Deionized Water	27.2 57.2	Diluent
PALMFONATE	45 15	Co-Surfactant
TENSAGEX SLES, 25%	* 16.8	Co-Surfactant
Part B		
IMBENTIN Fatty Alcohol Ethoxylate (7EO)*	7.0	Co-Surfactant
Part C		
KOTILEN Polysorbate-20	O* 1.0	Solubiliser
Part D		
PALMOCOL CDEA*	1.0	Viscosity Modifier
Part E		
Fragrance	As Needed	Fragrance
Preservative	As Needed	Preservative

*Ingredients offered by KLK OLEO



PALMFONATE -

Guided Formulations

Gentle to Skin Liquid Dishwash

Procedure

If using **PALMFONATE 6703**: Pre-condition at 45°C. Add water to the vessel followed by Part B in sequence, stirring to allow each ingredient to fully dissolve before adding the next. Add Part C stirring to allow each ingredient to fully dissolve before adding the next. Adjust the pH using NaOH or LABSA 96% as required. Then add desired fragrance and preservative.

If using **PALMFONATE 6709F**: Heat water in the vessel to 70°C. Add Part A in sequence, stirring to allow the flakes to fully dissolve. Add Part B in sequence, stirring to allow each ingredient to fully dissolve before adding the next. Add Part C stirring to allow each ingredient to fully dissolve before adding the next. Adjust the pH using NaOH or LABSA 96% as required. Then add desired fragrance and preservative.

Typical Properties

Appearance Clarity (%T at 800nm) pH (neat) Viscosity (cP) Stability Clear 88 8 - 9 4500 - 5500 Pass 12 weeks at 4°C, room temperature & 45°C Pass 5 freeze-thaw cycles

Ingredients	% wt./wt.	Function
PALMFONATE	6703 6709F	
Part A		
Deionized Water	64.8 76.0	Diluent
PALMFONATE	16.7 5.5	Co-Surfactant
Part B		
Sodium Dodecylbenzene Sulfonate 50%	10.0	Surfactant
Cocamidopropyl Betaine 30%	3.0	Co-Surfactant
PALMOCOL CDEA*	4.0	Co-Surfactant
Part C		
PALMERA Glycerine*	1.5	Humectant
Part D		
Fragrance	As Needed	Fragrance
Preservative	As Needed	Preservative

*Ingredients offered by KLK OLEO



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Creating, Developing & Delivering Solutions.



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