



Excellence in Oleochemicals



Sustainability
Starts Here.

Sustainability defined:

Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

UN Brundtland Commission, 1987

Contents

02	Overview	
12	PALMERA	Fractionated & Distilled Fatty Acids
13	PALMERA	Refined Glycerine
14	PALMEROL	Fatty Alcohols
15	PALMERE	Fractionated Methyl Esters
16	PALMESTER	Fatty Esters
17	PALMOSALT	Soap Noodles / Soap Chips / Soap Bar
18	PALMOCOL	Alkanolamides
19	PALMFONATE	Anionic Surfactant
20	PALMERGY	Biodiesels
21	PALMOWAX	Ethylene Bis-Stearamides
22	YUANDONG	Esters
23	FIVE PEAKS	Benzly Quats
24	TWINWHALE	Tertiary Amines
25	TWINWHALE	Dimethylacetamides
26	TWINWHALE	Amphoterics Surfactants
27	TWINWHALE	Anionic Surfactants
28	TWINWHALE	Cationic Surfactants

Our Brand, a Global Leader

KLK OLEO is one of the largest manufacturer of renewable palm-based oleochemical products and derivatives.

Our Roots

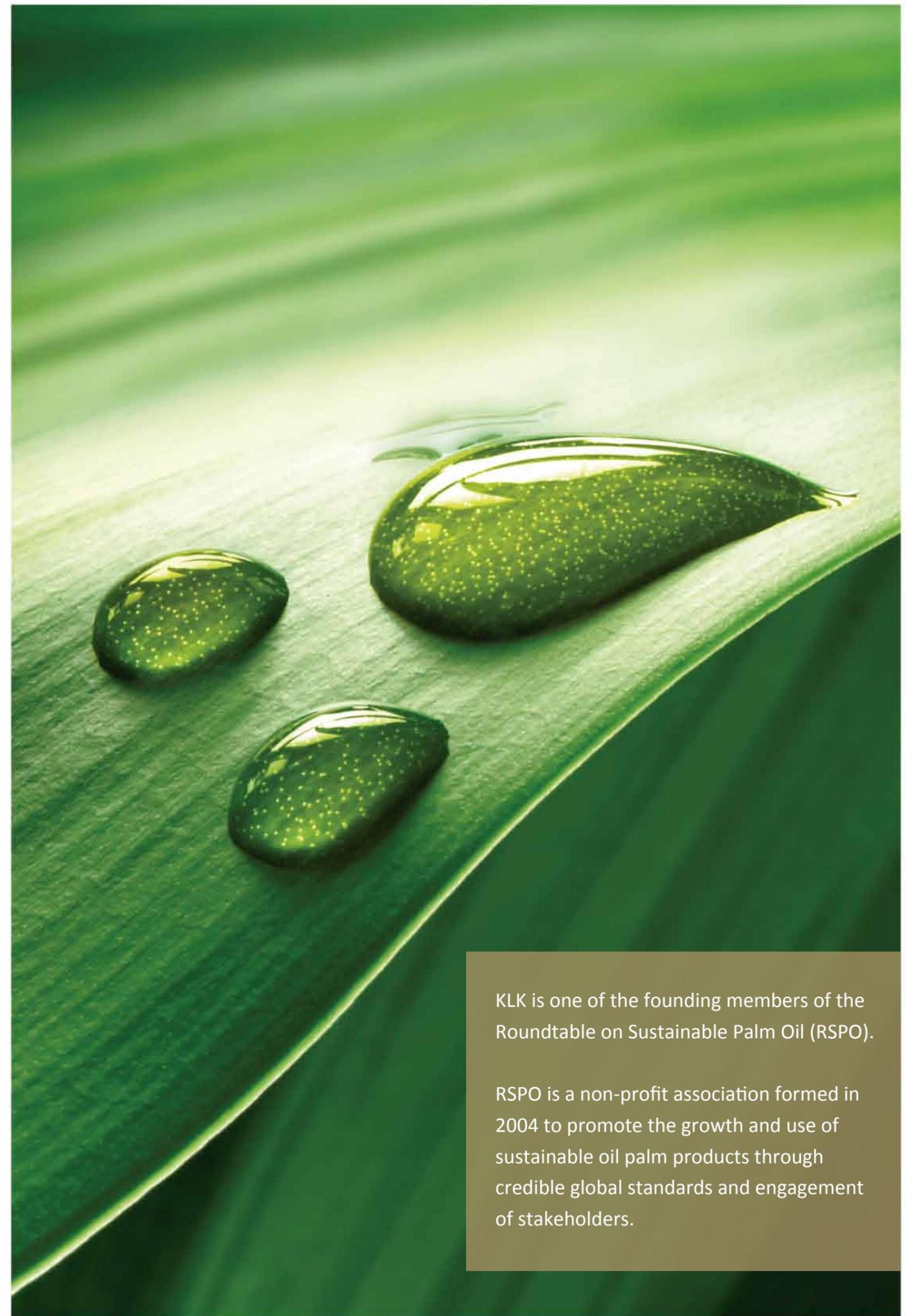
KLK OLEO is part of Kuala Lumpur Kepong Berhad (KLK), a Bursa Malaysia Main Board listed company involved in the exploration of palm oil plantations worldwide.

Our parent company was established in 1906 in London. Its headquarters relocated to Malaysia in 1973, and since the 1990s, KLK has expanded its portfolio by venturing into various downstream activities for several major industries-plantations, manufacturing, retailing and property.

KLK OLEO was formed in 1991 to be KLK's resource-based oleochemicals, derivatives and specialty chemicals manufacturer.

KLK OLEO is deeply rooted in Sustainability.

- Our products are manufactured from natural renewable raw materials obtained from our parent company.
- Our business concept emphasizes on sustainable and responsible practices and operations, just like our parent company.



KLK is one of the founding members of the Roundtable on Sustainable Palm Oil (RSPO).

RSPO is a non-profit association formed in 2004 to promote the growth and use of sustainable oil palm products through credible global standards and engagement of stakeholders.

The Vision

To be the largest, competitive and most preferred producer and supplier of innovative and sustainable palm-based oleochemical products and derivatives for all major global markets.

To be a global group of companies that is closest to all of our customers in each market worldwide.

The Mission

We will continue to manufacture and supply sustainable, quality, reliable and innovative products and solutions for the oleochemical industry at competitive prices.

We will be a good and responsible corporate citizen, observing the highest standards of integrity in our business practices for the sake of the environment and relevant communities.



Our Values

Sustainable

Pursue responsible, Green profits together with our stakeholders without sacrificing the equilibrium of Nature through integration of Green systems, methods and standards into our business strategy and operations.

Innovative

Fresh, creative ideas leading to an extended range of products and solutions that adds value, serves as a one-stop solution and provide a strong, competitive edge for the success of our customers and clients.

Reliable

- Consistent delivery of quality products.
- Extensive investments in Research & Development for continuous improvements.
- State-of-the-art processing plants.
- Efficient global distribution and network supply through sales offices, bulk storage facilities and manufacturing sites worldwide.
- Comprehensive customer and product support with our Technical Services Teams and Product Application Support Teams.

We're in it for Everyone!
Mother Nature's Future
Brand Growth
Global Consumers' Demands
Customers and Clients' Success
Employees' Improvement
Relevant Communities' Well-being

Chemicals for Everything

With an experienced and supportive parent company, KLK OLEO has successfully emerged as one of the leading global player in the oleochemical industry, offering an array of innovative, sustainable, quality and reliable products and solutions.

Our products and solutions are tailored based on our customer's perspective, and undergo strict, high standards of quality and safety procedures, implementations and tests, accreditation assessments and subjected to regulatory science policies.

Sustainability is our Color

We take pride in the fact that our raw materials are derived from natural resources, and are renewable. Our manufacturing processes and business operations are also crafted to reduce KLK OLEO's carbon footprint. We will continuously strive to ensure that responsible care is implemented whenever possible.

Non-genetically Modified Organisms (Non-GMO)

Good Agricultural Practices (GAP)

KLK's Tissue Culture Laboratory

Roundtable on Sustainable Palm Oil (RSPO)





RSPO

Roundtable on Sustainable Palm Oil (RSPO) Certification

The elements of the RSPO Certification Scheme are said to be the world's toughest standards for sustainable agriculture production.

Hence, the RSPO Certificate is universally recognized as a seal of approval that the palm oil used in the product is indeed produced sustainably, and in traceable volumes.

We source Responsible Planters who observe the 8 Principles and 39 Criteria of RSPO in their daily operations.

Current Milestone

July 2010 - Acquisition of KLK Emmerich in Germany

KLK OLEO successfully acquired a new plant on the river of Rhine in Germany.

The plant, which is over a decade old, is strategically situated close to key customers and raw material supply routes in the heart of Europe. Possessing world-scale assets, it has production facilities which manufacture of a range of fatty acids, hydrogenated fatty acids and glycerine by splitting of vegetable oils. The main raw materials used on site are either natural vegetable oils (e.g. coconut oil, palmkernel oil, rapeseed oil) or crude glycerine, either normal or methanolysed.

Emmerich is known to have a strong pedigree with the owners of Unilever (UNICHEMA), ICI (UNIQEMA) and Croda.

Today, it is part of KLK OLEO.



PALMERA

Fractionated & Distilled Fatty Acids

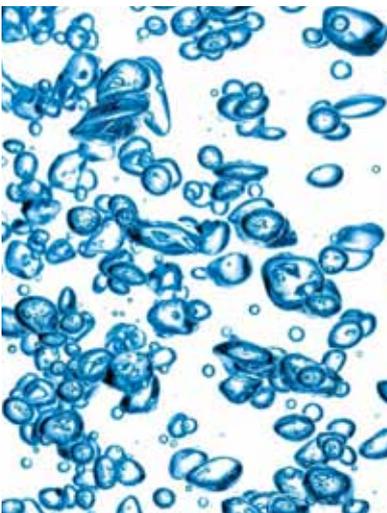


PALMERA distilled and fractionated fatty acids are produced in accordance with the required demands and quality standards such as GMP and HACCP - making them suitable for food, pharmaceutical and personal care applications. It can be used as-is, or as a derivative. Fatty acids may be found in plastics, rubber, textiles, lubricants, metal-working, crayons, candles, biocides, paints, inks and etc.



Product Range

Caproic Acid
Caprylic - Capric Acid
Caprylic Acid
Capric Acid
Lauric Acid
Myristic Acid
Palmitic Acid
Stearic Acid
Oleic Acid
Arachidic-Behenic Acid
Behenic Acid
Erucic Acid
Double / Triple Pressed Stearic Acid
Rubber Grade Stearic Acid
Distilled Palm Stearine Fatty Acid
Distilled Palm Oil Fatty Acid
Topped / Distilled Palm Kernel Fatty Acid
Topped / Distilled Coconut Fatty Acid
Tallow Fatty Acid



PALMERA

Refined Glycerine



PALMERA glycerine is a highly versatile and multi-functional product. Our glycerine conforms to USP, EP and BP standards; making it suitable for pharmaceutical and personal care applications. Glycerine is also widely used in tobacco products, surface coatings, paper, inks, lubricants, textiles, urethane polymers and etc. Glycerine, as a derivative, is found in the production of nitroglycerine, propylene glycol, epichlorohydrin and acrolein.

Product Range

- USP Grade
- EP Grade
- BP Grade



PALMEROL

Fatty Alcohols



PALMEROL fatty alcohols are derived from vegetable oils and are available in various fractions. The most important market for natural fatty alcohols; especially mid-cut and long chain alcohols, is for household detergents. Fatty alcohols are generally applied as a derivative for surfactants and detergent products.

Product Range



Octyl Alcohol
Decyl Alcohol
Lauryl Alcohol
Myristyl Alcohol
Cetyl Alcohol
Stearyl Alcohol
Octyl-Decyl Alcohol
Lauryl-Myristyl Alcohol
Lauryl-Cetyl Alcohol
Lauryl-Stearyl Alcohol
Ceto-Stearyl Alcohol



PALMERE

Fractionated Methyl Esters



PALMERE fractionated methyl esters are derived from vegetable oils and are available in light-cuts to heavy-cuts for diverse applications such as bio-fuel, lubricants, metal-working fluids, solvents for personal care products, rubber processing agents, oiling agent for textiles, and etc. Methyl ester is one of the main raw materials in the production of ester-based detergent surfactants like methyl ester ethoxylates (MEE), methyl ester sulfonates (MES), alkanolamides, and etc.



Product Range

- Methyl Caproate
- Methyl Caprylate
- Methyl Caprate
- Methyl Laurate
- Methyl Myristate
- Methyl Palmitate
- Methyl Oleate
- Methyl Caproate-Caprate
- Methyl Laurate-Myristate
- Methyl Laurate-Stearate
- Palm Kernel Methyl Ester
- Methyl Palmitate-Stearate



PALMESTER

Fatty Esters



PALMESTER is used in a broad variety of different industrial applications such as cosmetics, toiletries, pharmaceuticals, food, metal working fluids, and etc. Properties like lubrication, mould release, consistency promotion, emolliency, stability enhancement, spreading or fatty, solvency and cleaning demonstrate the large variety of functions offered by these unique products.

Product Range



A. Isopropyl Esters

Isopropyl Myristate
Isopropyl Palmitate
Isopropyl Oleate

B. Ethylhexyl Esters

Ethylhexyl Palmitate
Ethylhexyl Stearate
Ethylhexyl Oleate
Ethylhexyl Cocoate

C. Butyl Esters

N-Butyl Stearate

D. Methyl Esters

Methyl Laurate

E. Glycerol Esters

Caprylic/Capric Triglyceride
(MCT oil)
Glycerol Trioleate

F. Glycol Esters

Glycol Distearate
Glycol Stearate

G. Polyol Esters

Trimethylolpropane Palm
Kernelate
Trimethylolpropane Palm
Cocoate
Trimethylolpropane Trioleate
Trimethylolpropane Tricaprylate/
Caprate
Pentaerythritol Tetracaprylate/
Caprate
Propylene Glycol Dioleate
Pentaerythritol Tetraoleate



PALMOSALT

Soap Noodles/Soap Chips

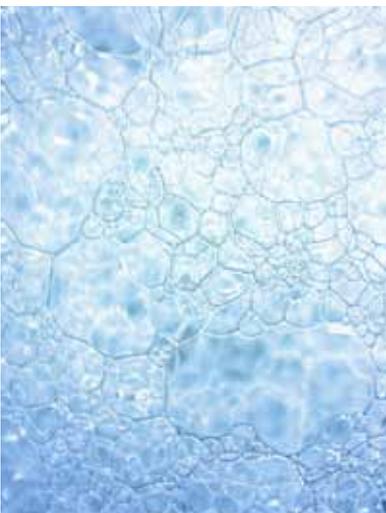


KLK OLEO offers a wide range of soap compositions for different formulations and quality aspects. Due to its wide-ranging versatility and overall properties, our PALMOSALT range of soap noodles meets the varied needs of our clients in the cosmetic, toiletry and laundry detergent manufacturing industries.



HIGH LOADING Soap Base is a versatile base for dense, creamy and silky lather bar soap. It possesses excellent additive high-loading properties; for example, greater perfume loading results in better perfume retention and subsequently continued release. As it is a versatile & specialized in usage, the base offers flexibility for cosmetic & toiletry companies launching new varieties of bar soap trend products in the market.

NOMAR Soap Base was developed to enhance the look and condition of complex soap shapes and patterning. It's excellent processing characteristics and properties enables the production and easy manufacture of intricate shapes in soap bars



PALMOCOL

Alkanolamides



PALMOCOL is a high purity alkanolamides for application in toiletries, liquid detergents and personal care products like shampoos, bubble baths, hand washers, body and facial cleansers. PALMOCOL is excellent in building viscosity; boosting and stabilizing foams - making it suitable for use in anionic or non-ionic surfactants. The Monoethanolamide grade can be used in various tablet formulations, such as synthetic soap bars, to effectively control its dissolution rate.



Product Range

Monoethanolamide - 80% / 90% min

Diethanolamide - 80% / 90% min



PALMFONATE

Anionic Surfactant



PALMFONATE is KLK OLEO's brand of anionic surfactant, which is the active cleaning ingredient in laundry detergents.

PALMFONATE's primary use is as a substitute to the current surfactant workhorse, Linear Alkyl Benzene Sulfonate, in detergent formulas. It is made from renewable natural resources, which gives it excellent bio-degradability; improved calcium hardness tolerance during the washing process, and superior detergency.



Available in dry free-flowing powder, PALMFONATE anionic surfactant enables direct addition to detergent formulas in the post-addition step in the manufacturing process.



PALMERGY

Biodiesels



Today's diesel engines require a clean-burning, stable fuel which performs well under a variety of operation conditions. Biodiesel is the only alternative fuel. Because it has similar properties to petroleum diesel fuel, biodiesel can be blended in any ratio with petroleum diesel fuel. Our PALMERGY biodiesels meets with the ASTM and EN standard for the above purpose.



Product Range

Palm Methyl Ester

Palm Methyl Ester, CFPP: 5-10 °C

Palm Methyl Ester, CFPP: 3-5 °C

Palm Methyl Ester, CFPP: 0-3 °C



PALMOWAX

Ethylene Bis-Stearamides (EBS)



PALMOWAX EBS exhibits excellent lubricating properties internally and/or externally in most plastics. EBS can be a binder in the precise engineering metal part. Its good dispersing ability and surface migration allows EBS to be used in the ink industries. When used as asphalt binders, PALMOWAX increases its softening point and enhances its visco-elasticity. Others application of EBS are in synthetic rubbers, wire drawing, defoaming agents, synthetic fibers, adhesive tape roll and etc.



Product Range

Typical Particle Size

PALMOWAX Bead	1150 μm
PALMOWAX SP	380 μm
PALMOWAX SF	50 μm
PALMOWAX Atomized	<10 μm



YUANDONG

Esters



YUANDONG Triacetin is a commonly used plasticizer in cigarette filters. Our fast-hardening grade of triacetin can cause cigarette rods to harden within an hour's time. Other applications include its use in perfume formulation, cosmetics, inks and paints, nitrocellulose, cellulose nitrate, ethyl cellulose and cellulose acetate butylrate, foundry industries, and etc.



YUANDONG Dimethyl Phthalate and Diethyl Phthalate are excellent plasticizers for many resins. It is also used in insect repellents, coatings, MEKP, DDT, GC, mining, perfumes, and etc.

YUANDONG Dimethyl Mix Ester is mainly used as a solvent for paints and coatings. It is a substitute of isophorone, glycol ethers and cyclohexanone; as an environmentally friendly cleansing agent and as paint removers.

Product Range

Triacetin
Triacetin (Casting Grade)
Triacetin (Fast Hardening)
Dimethyl Mix Ester
Dimethyl Phthalate
Diethyl Phthalate



FIVE PEAKS

Benzyl Quats



Our FIVE PEAKS products are GMP-certified; making it suitable in food applications and hygiene products as anti-microbials, disinfection agents and sanitizers. It is easily soluble in water and has low sensitivity to hard water.

Product Range

Benzalkonium Chloride
Benzalkonium Bromide



TWINWHALE

Tertiary Amines



Our TWINWHALE Tertiary Amines are derived from vegetable oils and offered in various fractions. Tertiary amines are generally used as raw material for the production of cationic, amphoteric and non-ionic surfactants such as quaternary ammonium compounds and amines oxides. It can be also used as pigment stabilizers, paint intensifiers soil stabilizers and flotation agents for minerals.



Product Range

Lauryl Dimethyl Amine

Cetyl Dimethyl Amine

Stearyl Dimethyl Amine

Lauryl-Myristyl Dimethyl Amine

Cetyl-Stearyl Dimethyl Amine



TWINWHALE

Dimethylacetamides



TWINWHALE Dimethylacetamide (“DMAC”) is an excellent substitute of DMF due to its good biodegradability. This eco-friendly product is widely used as a solvent for spandex, aramid, acrylic fibers, coatings, dyes and adhesives; as an antibiotic in pharmaceuticals, pesticide in agriculture, and extraction agent in petrochemicals.

Product Range

DMAC 99.6% min



TWINWHALE

Amphoteric Surfactants



TWINWHALE Amphoteric Surfactants have a unique characteristic which formulates easily with non-ionic, cationic and anionic surfactants. It is stable at high concentrations of electrolytes, over a wide range of pH, and gives excellent detergency, creating rich and stable foam. This surfactant is one of the main ingredients in various personal care products. It can be also found in rubbers, alkaline soaps, foam fire extinguishers and pesticides.



Product Range

Dodecyl Dimethyl Amine Oxide
Tetradecyl Dimethyl Amine Oxide
Hexadecyl Dimethyl Amine Oxide
Octadecyl Dimethyl Amine Oxide
Dodecyl-Tetradecyl Dimethyl Amine Oxide
Hexadecyl-Octadecyl Dimethyl Amine Oxide
Octadecyl-Hexadecyl Dimethyl Amine Oxide
Lauryl Betaine
Fatty Amidopropyl Betaine



TWINWHALE

Anionic Surfactants



TWINWHALE Anionic Surfactants are excellent emulsifiers, anti-static agents, wetting agents, softeners and moisturizers. It produces fine and stable foams, gives low irritation levels to skin and eyes. These attributes make them to be widely used in dishwashing products, cosmetics, coatings, leathers, paper, printing inks, textiles, petroleum, and etc. This product is also used as an anti-rusting agent for metal surfaces, cleaning agent for hard surfaces, additive for electro-plating, oiling agent for fibres, lubricant for metal-cutting, polishing agent and paper de-inking agent.



Product Range

Disodium Laureth Sulfosuccinate

Laureth Phosphate

Dipotassium Laureth Phosphate

TEA Laureth Phosphate



TWINWHALE

Cationic Surfactants



TWINWHALE Cationic Surfactants are easily formulated with all type of surfactants, except anionic surfactants. It is a good anti-static, softening and stabilizing agent for textiles, hair dyes, haircare products. It is also used as cationic dyes for fibres and disinfecting agents; as an emulsifier for synthetic rubbers and asphalt, as a foam builder for fire extinguishers, an industrial phase-transfer catalyst and a modifier for organobentonites.

Product Range

Dodecyl Dimethyl Benzyl Ammonium Chloride
Tetradecyl Dimethyl Benzyl Ammonium Chloride
Octadecyl Dimethyl Benzyl Ammonium Chloride
Di(octyl-decyl) Dimethyl Ammonium Bromide / Chloride
Didecyl Dimethyl Ammonium Bromide / Chloride
Dodecyl Trimethyl Ammonium Bromide / Chloride
Hexadecyl Trimethyl Ammonium Bromide / Chloride
Hexadecyl Dimethylethyl Ammonium Bromide
Stearyl Trimethyl Ammonium Chloride
Benzalkonium Chloride / Bromide



Disclaimer

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All information provided herein is true and accurate to the best of our knowledge, based on information available to us as at the date hereof.

Recommendations or suggestions as to the use of the Products are given in good faith but it is for a buyer to be satisfied (by trial processing if necessary) as to the fitness or suitability of the Products for any particular purpose. No warranty is given as to their fitness for any particular purpose.

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