

A woman with short, light-colored hair, wearing a blue long-sleeved shirt, white pants, and a floral scarf, is smiling and holding a small white and brown dog. She is standing next to a light-colored bicycle with a wicker basket on the handlebars. The background is a dense wall of green ivy. The text 'PALMESTER Medium Chain Triglycerides' is overlaid on the image, underlined.

PALMESTER
Medium Chain Triglycerides



PALMESTER

Medium Chain Triglycerides (MCTs)

KLK OLEO is committed to deliver the best quality and safe product to our customers. Our MCTs are strictly produced in a dedicated production line which minimises cross contamination. Our products are GMO free and derived from renewable resources.

KLK OLEO offers different formats of MCTs, which include oil and powder. MCT oil is graded according to the ratio of caprylic / capric acid. MCT powder is graded according to the MCT oil load.

Be assured by **PALMESTER**



Our Brand in the **Global Arena**



* PALMESTER 3595, 3585, 3580 & 3575 are ECOCERT COSMOS approved.

Medium Chain Triglycerides (MCTs)

PALMESTER MCTs are composed of a glycerol backbone attached to three fatty acids with chain lengths ranging from 6 to 12 carbons. Due to their unique nutritional and diverse properties, they are used in a wide range of applications including food & beverages, personal care and pharmaceuticals.

Food & Beverages



- ✓ Support healthy lifestyle
- ✓ Energy booster
- ✓ Solvent & carriers



Pharmaceuticals



- ✓ Enteral nutrition
- ✓ Parenteral nutrition
- ✓ Transdermal application



Application



Personal Care

- ✓ Good compatibility with oil soluble actives
- ✓ Good spreading and skin penetration properties
- ✓ Good moisture retaining properties



Others

- ✓ Animal nutrition





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Applications	Functions	Key Features
Food & Beverages		
Chocolate, cocoa and confectionery	<ul style="list-style-type: none">▸ Reduce calorie	<ul style="list-style-type: none">▸ Reduce calories while maintaining good melting behaviour
Beverages	<ul style="list-style-type: none">▸ Clouding agent▸ Solubiliser	<ul style="list-style-type: none">▸ Low viscosity▸ Water solubility property gives uniform cloud
Flavour & fragrances	<ul style="list-style-type: none">▸ Solubiliser / carrier▸ Stabiliser	<ul style="list-style-type: none">▸ Clean organoleptic property▸ Solvent for lipophilic materials▸ Excellent oxidative stability
Light duty frying	<ul style="list-style-type: none">▸ Nutritional oil	<ul style="list-style-type: none">▸ No trans fat
Gummies, jellies & chewing gums	<ul style="list-style-type: none">▸ Confectionary glaze▸ Softening agent / plasticiser▸ Anti-sticking agent	<ul style="list-style-type: none">▸ Flavour carrier▸ Anti-sticking for easy machinability & good chewing experience▸ Give desirable softening effect for good mouth-feel
Cereals, crackers & chips	<ul style="list-style-type: none">▸ Spray oil	<ul style="list-style-type: none">▸ Low viscosity for uniform coating, easy spreading▸ Excellent oxidative stability
Dried fruits	<ul style="list-style-type: none">▸ Moisture barrier▸ Anti-sticking agent for high sugar, high protein systems	<ul style="list-style-type: none">▸ Low viscosity for uniform coating▸ Prevent water loss▸ Anti-sticking
Powder mixes & seasoning dry blends	<ul style="list-style-type: none">▸ Anti-dusting agent	<ul style="list-style-type: none">▸ Excellent oxidative stability
Baked goods	<ul style="list-style-type: none">▸ Fat source▸ Lubricant as a processing aid	<ul style="list-style-type: none">▸ Low calorie value▸ Good machinability
Adult nutrition	<ul style="list-style-type: none">▸ Energy source	<ul style="list-style-type: none">▸ Excellent source of readily metabolised energy
Infant nutrition	<ul style="list-style-type: none">▸ Energy source▸ Fat substitute	<ul style="list-style-type: none">▸ Excellent source of readily metabolised energy▸ Improve nutrient absorption
Sport nutrition	<ul style="list-style-type: none">▸ Energy source	<ul style="list-style-type: none">▸ Excellent source of readily metabolised energy
Personal Care		
Colour cosmetics (lipstick, lip gloss, liquid foundation, eyeliner, mascara, eye shadow)	<ul style="list-style-type: none">▸ Help in keeping colour pigments well distributed in formulations	<ul style="list-style-type: none">▸ Improve dispersion and stabilisation of colour pigments, providing good coverage for cosmetic formulations





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Applications	Functions	Key Features
Personal Care		
Sun care (sunscreen lotion / spray, after-sun, self-tanning lotion)	<ul style="list-style-type: none"> ▶ Excellent dispersing and dissolving properties for UV filters 	<ul style="list-style-type: none"> ▶ Stable against oxidation due to saturated carbon chain
Skin care (face cream / serum, facial masks, body lotion / oil, hand & foot care, wet wipes, make-up remover)	<ul style="list-style-type: none"> ▶ Provide skin smoothing and moisturising properties ▶ Improve skin gloss ▶ Excellent carrier for oil soluble actives ▶ Control and adjust the viscosity of formulations 	<ul style="list-style-type: none"> ▶ Non-greasy, low irritation oil with good lubricity, natural alternative to mineral oils
Fragrance (perfumes, EDT, EDP)	<ul style="list-style-type: none"> ▶ Excellent carrier for perfume oil or oil soluble actives 	<ul style="list-style-type: none"> ▶ Miscible in polar solvents and odourless
Hair care (hair shampoo, hair treatment oil, hair conditioner, hair mask)	<ul style="list-style-type: none"> ▶ Base oil in hair treatment products for all hair types 	<ul style="list-style-type: none"> ▶ Good spreading behaviour provides lubricity to hair
Pharmaceuticals		
Pharmaceutical processing	<ul style="list-style-type: none"> ▶ Lubricant 	<ul style="list-style-type: none"> ▶ Excellent oxidative stability ▶ Low viscosity
Pharmaceutical excipient	<ul style="list-style-type: none"> ▶ Solubiliser / dispersant / carrier ▶ Antifungal & antimicrobial agent 	<ul style="list-style-type: none"> ▶ Excellent solvent for lipophilic drugs ▶ Effective for skin infection
Enteral / parenteral nutrition	<ul style="list-style-type: none"> ▶ Energy source ▶ Nutritional oil 	<ul style="list-style-type: none"> ▶ Excellent source of readily metabolised energy ▶ Support patients with gastro-intestinal tract issue ▶ Potential benefit for cognitive health
Others		
Animal food	<ul style="list-style-type: none"> ▶ Excellent solvency ▶ Lubricant as a processing aid 	<ul style="list-style-type: none"> ▶ Solvent for lipophilic materials ▶ Excellent oxidative stability ▶ Good machinability
Animal nutrition	<ul style="list-style-type: none"> ▶ Energy source ▶ Antibacterial agent ▶ Enhance cognitive function 	<ul style="list-style-type: none"> ▶ Excellent source of readily metabolised energy ▶ Improve gut health





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