

Personal Care Series

PHARMOCARE 8120 MCT

Caprylic/Capric Triglyceride (MCT)

PHARMOCARE 8200 COCO MCT

Caprylic/Capric Triglyceride from **100% Coconut**

PHARMOCARE 8120 and 8200 COCO MCT

INCI: Caprylic/Capric Triglyceride (MCT Oil)

- Excellent penetration promoting emollient
- Excellent skin spreading agent
- Great skin absorption
- Supports skin breathability
- Skin-smoothing

Caprylic/Capric Triglyceride – also known as MCT Oil – is a clear to yellowish oil derived from sustainable, renewable natural vegetable sources. MCT oil is a triglyceride of the fractionated Caprylic (C8) and Capric Acids (C10).

Pharmacare 8120 MCT and Pharmacare 8200 COCO MCT is a clear and colourless liquid, neutral in odour and taste. The triglyceride is fully saturated and therefore highly resistant to oxidation. We achieve high purity from carefully selected raw materials and a tightly controlled manufacturing process. Our product is free of additives such as antioxidants, solvents and catalyst residues.

Pharmacare 8120 MCT and Pharmacare 8200 COCO MCT has a shelf life of 3 years from production if stored in closed original drums or IBC.

Functions

- Non-greasy emollient
- Dispersing agent
- Oil substitute
- Moisturiser
- Solubiliser
- Solvent
- Spreading agent
- Viscosity Modifier

Applications

Sun Care

- Sunscreens
- After sun
- Self-tanning

Lip Care

- Balms
- Creams
- Sticks

Oils

- Massage
- Bath & Shower
- Shaving

Hair Care

- Oils
- Masks

Skin Care

- Facial Creams & Masks
- Body Lotions
- Nail Care
- Hand & Foot

Baby Care

- Creams
- Lotions
- Cleansing
- Wet Wipes

Aerosols

- Antiperspirants
- Deodorants
- Perfumes

PHARMOCARE 8120 and 8200 COCO MCT

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Test Description		Limit	
		Min.	Max.
Appearance	-	Colourless or slightly yellowish, oily liquid.	
Solubility	-	Practically insoluble in water, miscible with ethanol (96 per cent), with methylene chloride, with light petroleum and with fatty oils.	
Acid Value	mg KOH/g		0.1
Saponification Value	mg KOH/g	310	360
Iodine Value	g/100g		1.0
Hydroxyl Value	mg KOH/g		10
Peroxide Value	meq/kg		1.0
Moisture	%		0.2
C6 Fatty Acid	%		2.0
C8 Fatty Acid	%	50.0	80.0
C10 Fatty Acid	%	20.0	50.0
C12 Fatty Acid	%		3.0
C14 Fatty Acid	%		1.0
Total C8 and C10 Fatty Acids	%	95	
Relative Density	-	0.93	0.96
Refractive Index	-	1.440	1.452
Viscosity	mPa.s	25	33
Sulphated Ash	%		0.1
Unsaponifiable Matter	%		0.5
Alkaline Impurities (0.01M HCl)	mL		0.15
Heavy Metals	ppm		10
Chromium (Cr)	ppm		0.05
Copper (Cu)	ppm		0.1
Lead (Pb)	ppm		0.1
Nickel (Ni)	ppm		0.1
Tin (Sn)	ppm		0.1

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Application

Skin Care

Creams and lotions: Non-greasy emollient oil component with excellent spreadability.

Skin, face, baby oils: Non-oxidizing, penetration promoting emollient.

Massage oils: Non-oxidizing, penetration promoting emollient.

Masks: Emollient skin care additive.

Decorative Cosmetics

Makeup, sticks, mascara:

Dispersing oil component, compatible with pigments.

Makeup remover:

Disperses pigments and acts as a solublizer.

Cleansing Cosmetics

Two-phase foam baths:

Fat component, readily miscible with natural oils and surfactants.

Sunscreens

O/W Sunscreen Creams:

Oil component, compatible with organic and inorganic filter agents.

W/O Sunscreen Creams/Oils:

Oil component, compatible with organic and inorganic filter agents.

Essential Oils

Carrier for Essential Oils:

Excellent due to the odourless, colourless, non-staining nature of the oil.

Pharmacare MCTs use is best suggested for:

- **Body & Skin Care**
- **Facial Care**
- **Sun Care**
- **Hair Care**
- **Colour Cosmetics**
- **Essential Oil Carrier**

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Formulation Guide

Facial Oil

Ingredient Name	Function	% w/w
Pharmocare 8120 MCT / 8200 COCO MCT	Emollient	q.s.
Sunflower Oil	Emollient	10
Isostearyl Isostearate	Moisturizing Enhancer	5
Grapeseed Oil	Anti-aging	2
Evening Primrose Oil	Emollient	2
Joboba Seed Oil	Emollient	2
Olive Fruit Oil	Emollient	2
Apple Seed Oil	Anti-aging	3
Rice Bran Oil	Emollient	3
Cemellia Oleifera Seed Oil	Emollient	3

Procedure:

Mix all ingredients at RT.

Appearance:

Transparent liquid.



PHARMOCARE 8120 and 8200 COCO MCT

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Formulation Guide

Light and Moisturising Natural Day Cream

Ingredient Name	% w/w
Part A	
Deionised Water	q.s.
Propylene Glycol	5
Magnesium Sulphate Heptahydrate	0.2
Part B	
PEG-30 Dipolyhydroxystearate	2
Isostearyl Isostearate	6
Pharmacare 8120 MCT / 8200 COCO MCT	8
Pharmacare 8840 (Propylene Glycol Dicaprylate/Dicaprate)	5
Cyclomethicone	6
Part C	
Phenoxyethanol	0.1
Methylparaben, Propylparaben, Ethylparaben, Butylparaben, Isobutylparaben	0.4

Procedure:

1. Combine water phase (Part A) and heat to 40 deg C.
2. Separately, combine oil phase (Part B) and heat to 40 deg C.
3. Slowly add Part A to Part B with intensive stirring.
4. Homogenise for 1 minute at 10,000rpm (for 100g batch).
5. Stir to cool. Add Part C.

Procedure:

White, opaque lotion.

Viscosity:

2850 cPs