



Capmul[®] MCM

CAS Number: 26402-22-2* & 26402-26-6
INCI name: Glyceryl Caprylate / Caprate

EINECS Number: 287-075-5

Synonyms:

Glyceryl Mono- & dicaprate
Medium Chain Mono- & Diglycerides

Product Type:

Capmul[®] MCM is a mono-diglyceride of medium chain fatty acids (mainly caprylic and capric). It is an excellent solvent for many organic compounds including steroids. It is also a useful emulsifier for water-oil systems.

According to 21 CFR § 184.1505, mono and diglycerides prepared from edible fats and oils or fat-forming acids are affirmed GRAS.

Specifications:

Specification	Limit	Test Method
Appearance / Form	Liquid / Semi-solid	Visual
Color, Lovibond	4.0 R max.	PFX990 Tintometer
Iodine Value	2.0 max.	¹ AOCS Cd 1-25
Acid Value	2.5 max	AOCS Cd 3d-63
Moisture, Karl Fischer	0.5% max.	AOCS Ca 2e-84
Alpha Monocaprylate	45% min.	AOCS Cd 11-57
(also expressed as alpha mono-oleate)	80% min	AOCS Cd 11-57
Free Glycerol	2.5% max.	AOCS Ca 14-56

Typical Properties:

Iodine Value	2.0 max.	² USP/NF
Residue on Ignition	0.5%	USP/NF
Heavy Metals, as lead	10 ppm max.	USP/NF
Specific Gravity	0.97 - 1.02	USP/NF

¹American Oil Chemists' Society ²United States Pharmacopeia

Toxicology Information:

Test	Result
Acute Oral Toxicity (Oral LD ₅₀):	> 5 gm / kg in rats.
Primary Dermal Irritation (rabbit):	Non-irritant.
Acute Eye Irritation (rabbit):	Non-irritant.
Acute Inhalation Toxicity (LC ₅₀):	> 20 mg / L in rats.
Comedogenicity (rabbit):	Slight to moderate comedogenic.
Dermal Sensitization (guinea pig):	Non-sensitizing.

Version: 12

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1/4/05

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Capmul[®] MCM

Personal Care Applications:

- Water / oil emulsifier.
- Recommended for creams. Lotions, ointments and lipsticks.

Regulatory:

- Drug Master File (DMF) 3700.
- Generally recognized as safe (GRAS) according to 21 CFR § 184.1505.

Pharmaceutical and Nutritional Applications:

- Carrier (vehicle).
- Solubilizer.
- Emulsifier / Co-emulsifier.
- Bioavailability enhancer.
- Penetration enhancer (dermatological applications).

Shelf-Life:

Retest and re-qualify 12 months from the date of manufacture.

Storage:

Store in a dry place at 68-77 °F.

Handling:

Contents of package must be heated slightly with agitation to ensure uniformity prior to use.

Standard Package:

- 50 lb. (22.7 kg) pail.
- 425 lb. (193 kg) drum.
- Tank wagon.

The information contained in this bulletin to the best of our knowledge is currently true and accurate. Any recommendations or suggestions are made without warranty or guarantee since, among other reasons, the conditions of storage and use are beyond our control.