



Capmul[®] MCM C10

CAS Number: 26402-22-2*
INCI name: Glyceryl Caprate

EINECS Number: 247-667-6

Synonyms:

Glyceryl Mono- & dicaprate
Medium Chain mono- & diglycerides

Product Description:

Capmul MCM C10 is a mono-diglyceride of medium chain fatty acids (mainly Capric). It is a useful emulsifier for water-oil systems. It has an excellent skin feel and has been utilized in lip products to reduce sweating at elevated temperatures and improve gloss. According to 21 CFR § 184.1505, mono & diglycerides prepared from edible fats and oils or fat-forming acids are affirmed GRAS.

Specifications:

Specification	Limit	Test Method
Acid Value	2.5 max	AOCS Cd 3d-63
Moisture, KF	1.0 % max	AOCS Ca 2e-84
Alpha Monoglyceride (as caprate)	45% min.	AOCS Cd 11-57
Free Glycerol	3.0% max.	AOCS Ca 14-56

¹AOCS: American Oil Chemists' Society.

Typical Properties:

Saponification Value	220-280	AOCS Cd 3-25
Hydroxyl Value	270-345	AOCS Cd 13-60

Toxicology Information:

(based on chemically similar composition "Medium chain mono- & diglycerides")

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

Version: 5

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7/28/04



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Personal Care Applications :

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

Regulatory:

- 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 requalify 1 year 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) pails, 425 lb. (193 kg) drums or Tank wagons.

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