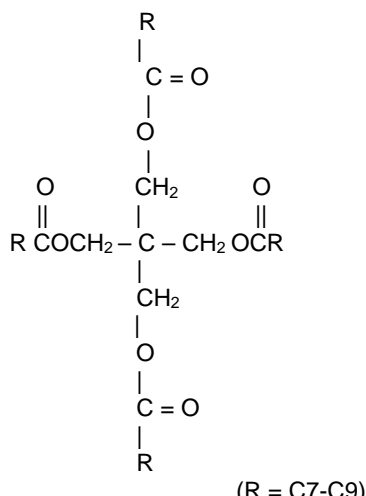


Product Name

## STEPAN<sup>®</sup> PTC

Chemical Structure



CAS Registry No.

68441-68-9

INCI Name

Pentaerythrityl Tetracaprylate/Tetracaprate

Applications

Functional Properties

- Skin Conditioning Agent
- Occlusive Agent
- Emollient

End Product Uses

- Creams and Lotions
- Bath Oils
- Lipsticks
- Hair Conditioners
- Sunscreens
- Pre and After-Shave Products

Typical Properties

Appearance at 25°C.....	Pale Straw, Clear liquid
Acid Value .....	1.0 max.
Color, APHA.....	100 max.
Iodine Value .....	1.0 max.
Saponification Value .....	315-350
Hydroxyl Value.....	5.0 max.
Viscosity, cst at 10°C .....	120-130
Viscosity, cst at 25°C .....	52-62
Moisture, %.....	0.3 max.
Refractive Index at 25°C .....	1.4530-1.4550
Density, g/ml (lbs/U.S. gal) at 60°F .....	0.952-0.957 (8.01)
RVOC, U.S. EPA, % .....	0
<u>Solubility</u>	
Water .....	Insoluble
Alcohol (IPA).....	Soluble
Mineral Oil.....	Soluble
Vegetable Oil (Peanut).....	Soluble



Biodegradability

Product is biodegradable. Additional information is available upon request.

Toxicity

STEPAN PTC can be considered practically non-toxic orally (LD<sub>50</sub> >5g/kg) and minimally irritating to skin and eyes. Additional information is available upon request.

Storage & Handling

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling STEPAN PTC. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

It is recommended that STEPAN PTC be stored in sealed containers and prolonged storage above 32°C (90°F) be avoided. Avoid overheating or freezing.

Standard Packaging: STEPAN PTC is available in 55 gallon drums (net weight 400 lb/181 kg).

Clearances

All components of STEPAN PTC are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: United States (TSCA 68441-68-9), Europe (EINECS 270-472-2), Korea (ECL Serial No. KE-09471), Canada (NDSL 68441-68-9), Australia (AICS 68441-68-9), Philippines (PICCS 68441-68-9), and Japan (ENCS 2-661).

Formulation

**HAND AND BODY LOTION**

**Ingredients**

**Wt. % (as is)**

Water Phase

1.	D.I. Water	Q.S. to 100.0
2.	Glycerin	3.5

Oil Phase

3.	Brij 78 (Uniqema)	0.4
4.	STEPAN PTC	10.0
5.	HALLSTAR GMS Pure	3.0
6.	HALLSTAR Cetyl Alchoh.;, NF	2.0
7.	Paragon II (McIntyre)	1.0

**Mixing Procedure:**

1. Prepare water phase by adding # 1 and # 2. Start mixing. Start heating to 75°C.
2. In separate vessel prepare oil phase by adding # 3 through # 6. Start mixing. Start heating to 75°C.
3. When both phases are at 75°C add oil phase to water phase. Mix for 20-25 minutes at 75°C
4. Start cooling with agitation to 45°C.
5. At 45°C add # 7 with continuous agitation.
6. Cool to ambient temperature with mixing.

A Material Safety Data Sheet is available upon request.

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Additional Safety Information



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