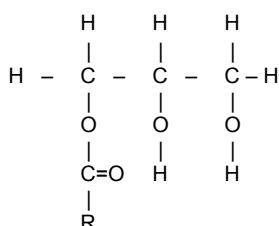


Product Bulletin

Product
Name

STEPAN-MILD® GCC

Chemical
Structure



R = 66% C₇H₁₅ and 32% C₉H₁₉

Chemical
Description

STEPAN-MILD GCC is Glyceryl (Caprylate/Caprate). It is made by esterification of glycerin from vegetable oil sources and medium chain fatty acid from coconut or palm kernel oil.

CAS
Registry Nos.

91744-32-0 (Alternate CAS Numbers 85536-07-8/85409-09-2)

INCI Name

Glyceryl Caprylate/Caprate

Applications

Functional Properties

- Thickener
- Foam enhancer
- Co-emulsifier
- Reported Re-fatting agent
- Solubilizing agent

End Product Uses

- Shampoos
- Body washes
- Liquid soaps
- Facial cleansers
- Skin creams and lotions

Key Attributes in Personal Care Applications

- Affirmed GRAS – permitted as additive in food and nutritional products
- Safe – mild, non-sensitizing and non-irritating to eyes and skin
- PEG and EO/PO-free → No 1,4 dioxane
- Nitrogen-Free → No nitrosamines
- Can be incorporated in cold mix at any step of the process
- Good processability - shows no gelation

Typical
Properties

Appearance at 25°C.....	Off-white liquid to soft paste	Melting Point, °C (°F)	24-30 (75-86)
Odor.....	Fatty	Flash Point, °C (°F), PMCC.....	>94 (>201)
Free glycerol, %	1.3	Viscosity, cSt at 100°F	37.0
Acid Value, mg KOH/gm	1.0	Density g/ml (US lb/gal)	0.992 (8.26)
Saponification Value, mg KOH/gm.....	276	HLB	4.8
Iodine Value, Wijs	0.05	RVOC, U.S. EPA, %.....	0

Solubility

Water Dispersible
Propylene Glycol at 10% w/v Soluble

Biodegradability

Product is biodegradable. Additional information available upon request.

Sept. 2009

Supersedes:

July 2009

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STEPAN-MILD®, STEOL®, AMPHOSOL® are registered trademarks of Stepan Company.



Storage & Handling

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling STEPAN-MILD GCC. Recommended storage temperature is 65°F to 90°F (18°C to 32°C). Avoid prolonged storage above 90°F (32°C).

Clearances

Standard Packaging: STEPAN-MILD GCC is available in 55 gallon drums (net weight 440 lbs/199 kg).

STEPAN-MILD GCC is exempt from the U.S. TSCA Inventory when used solely as a Cosmetic Ingredient. STEPAN-MILD GCC is approved for use in Canada in personal care and cosmetic applications only.

All components of STEPAN-MILD GCC are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: Europe (EINECS 294-594-0), Australia (AICS 85536-07-8, 85409-09-2), Japan (ENCS 2-669), Korea (ECL Serial No. KE-17928), Philippines (PICCS 91744-32-0), China (IECSC 91744-32-0), and New Zealand (NZIoC 85536-07-8, 85409-09-2). This product conforms to Ecocert's natural and organic cosmetic standard and is 100% of natural origin.

STEPAN-MILD GCC is Kosher Certified.

Formulation

MILD, AMIDE-FREE CLEAR BODY WASH

<u>Ingredients</u>	<u>Wt.% as is</u>	<u>Function</u>
D.I Water	Q.S. to 100.0	Solvent
STEOL® CS-230	28.9	Primary Surfactant
STEPAN-MILD LSB	18.9	Secondary Surfactant
AMPHOSOL® HCG	10.0	Secondary Surfactant
STEPAN-MILD GCC	2.0	Thickener, foam stabilizer
DMDM Hydantoin	0.25	Preservative
Citric Acid	Q.S. to pH 5.5-5.7	pH Adjuster
Fragrance and Dye	Q.S.	Additives

Mixing Procedure:

Charge vessel with Deionized Water. Start agitation. Add STEOL CS-230, STEPAN-MILD LSB and AMPHOSOL HCG. Mix well until homogeneous. Add STEPAN-MILD GCC. Mix until clear. Add DMDM Hydantoin. Adjust pH to 5.5-5.7 with Citric Acid if necessary.

Physical Properties:

Appearance at 25°C.....	Clear Liquid
pH	5.5-5.7
Viscosity at 25°C, cps	25,000-27,000

Patent pending*

A Material Safety Data Sheet is available upon request.

Additional Safety Information

Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.

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