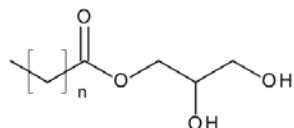


## Product Bulletin

### STEPAN-MILD® GCC



n = 57% C<sub>6</sub>H<sub>12</sub>, 43% C<sub>8</sub>H<sub>16</sub>

Product Name

Chemical Structure

Chemical Description

CAS Registry Nos.

INCI Name

Applications

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.

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

Glyceryl Caprylate/Caprate

#### 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

- 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..	Pale yellow liquid to white semi-solid	Melting Point, °C (°F) .....	24-30 (75-86)
Odor .....	Fatty	Flash Point, °C (°F), PMCC .....	>94 (>201)
Free glycerol, % .....	1.3	Viscosity at 100 °F, cSt.....	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.

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).

Standard Packaging: STEPAN-MILD GCC is available in 55-gallon drums.

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.

The international inventories (country clearances) for STEPAN-MILD GCC can be found in Section 15 of the Safety Data Sheet (SDS). **It is the responsibility of the formulator to review the chemical control regulations for each country where the end product is intended to be sold or used.** If you have any further questions regarding inventories, please contact North America Technical Service at [techserv@stepan.com](mailto:techserv@stepan.com). This product conforms to the COSMOS cosmetic standard.

STEPAN-MILD GCC meets the U.S. EPA Safe Choice Program's surfactant screen and is listed on [www.cleangredients.org](http://www.cleangredients.org) (an on-line database for green formulators); it can be used in non-TSCA applications. For further information, visit [www.cleangredients.org](http://www.cleangredients.org). Additional Stepan ingredient listing can be found at [www.stepan.com](http://www.stepan.com).

STEPAN-MILD GCC is Kosher Certified. Affirmed GRAS – permitted as additive in food and nutritional products.

#### MILD, AMIDE-FREE CLEAR BODY WASH

<u>Ingredients</u>	<u>Wt.% as is</u>	<u>Function</u>
Deionized 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, as is .....	5.5-5.7
Viscosity at 25 °C, cps .....	25,000-27,000
Patent pending*	

This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.

A Safety Data Sheet is available upon request.



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