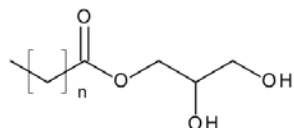


Product Bulletin

STEPAN-MILD® GCC



n = 57% C₆H₁₂, 43% C₈H₁₆

Product Name
 Chemical Structure
 Chemical Description
 CAS Registry Nos.
 INCI Name
 Applications
 Typical Properties
 Biodegradability
 Storage & Handling

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

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

Product is biodegradable. Additional information available upon request.

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.



Formulation

Product Stewardship

Additional Safety Information

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. 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 (an on-line database for green formulators); it can be used in non-TSCA applications. For further information, visit www.cleangredients.org. Additional Stepan ingredient listing can be found at 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

Table with 3 columns: Ingredients, Wt.% as is, Function. Rows include Deionized Water, STEOL CS-230, STEPAN-MILD LSB, AMPHOSOL HCG, STEPAN-MILD GCC, DMDM Hydantoin, Citric Acid, and Fragrance and Dye.

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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Stepan Corporate Headquarters Northfield, Illinois 60093, U.S.A. Phone: 847-446-7500 Fax: 874-501-2100 Website: www.stepan.com

For Technical Service Call: Stepan North America +1-800-745-7837 Stepan Mexico +55-11-5089-2208 Stepan Quimica +55-11-5089-2200 Stepan Colombia +571-636-2808 Stepan Europe +33-476-505-160 Stepan Asia +656-879-9855 Stepan Philippines +656-879-9855

For Customer Service Call: Stepan North America +1-800-457-7673 Stepan Mexico +52-555-533-1967 Stepan Quimica +55-11-5089-2200 Stepan Colombia +57-6-8993125 Stepan UK +44-161-338-5511 Stepan France +33-476-50-51-00 Stepan Philippines +63-2-842-7951