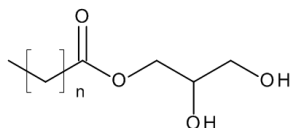


Product Bulletin

Product Name

STEPAN-MILD® GCC

Chemical Structure



n = 57% C₆H₁₂, 43% C₈H₁₆

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
- Re-fattening 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-irritating to skin and moderately irritating to eyes
- 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)
Flash Point, PMCC, °C (°F)	>94 (>201)
Odor	Fatty
Viscosity at 100F, cSt	37.0
Free glycerol, %	1.3
Density, g/ml (U.S. lbs/gal).....	0.992 (8.26)
Acid Value, mg KOH/gm	1.0
HLB.....	4.8
Saponification Value, mg KOH/gm.....	276
Iodine Value, Wijs	0.05
RVOC, U.S. EPA, %	0
Preservative	Not required
Solubility:	
Water	Dispersible
Propylene Glycol at 10% w/v	Soluble

Health Effects



Environmental
Effects

Storage &
Handling

Workplace
Exposure

Clearances

Product
Stewardship

Additional
Safety
Information

Product is biodegradable. Additional information available upon request.

Normal safety precautions (e.g., gloves and safety goggles) should be employed when handling STEPAN-MILD GCC. Contact with eyes, nose or prolonged contact with skin should be avoided. Wash thoroughly after handling STEPAN-MILD GCC. See SDS for more information.

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

Non-Bulk Storage Recommendations: STEPAN-MILD GCC should be stored in closed containers between 65°F-90°F (18°C-32°C) and kept in a cool, dry place away from incompatible materials (see Section 10 of the SDS). If material is frozen it should be heated gently and stirred to ensure it is homogeneous prior to use. Avoid prolonged storage above 90°F (32°C).

Bulk Storage Recommendations: STEPAN-MILD GCC should be stored in vessels of 316 stainless steel. Heating and agitation are recommended for outside storage. Material should be stored between 65°F-90°F (18°C-32°C). An internal hairpin coil of 316 stainless steel with low pressure steam (under 50 psig) should be used if heating is required. Pumps, pipes and transfer lines should be 316 stainless steel. Avoid prolonged storage above 90°F (32°C).

Occupational exposure can occur primarily through skin contact or via inhalation of vapors and mists. Engineering controls, personal protective equipment, and other workplace safety practices should be used to control these exposures. See SDS for more 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.

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
Northbrook, Illinois 60062, 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**