



Technical Information

TEGO® Betain F KB 5 / TEGO® Betain F KM 1

Mild amphoteric surfactants

Intended use

Surfactant

Benefits at a glance

- Mild
- Low viscosity – easy to process
- Good foaming properties
- Approved preservative systems

INCI (PCPC name)

Cocamidopropyl Betaine

Chemical and physical properties (not part of specifications)

Form	clear, low-viscosity; liquid
Color	light
Active matter	approx. 30%
Preservative	Sodium Benzoate

Properties

- TEGO® Betain F KB 5 and TEGO® Betain F KM 1 are biodegradable amphoteric surfactants, compatible with anionic, cationic and nonionic substances.
- Low viscosity aqueous solution (pumpable).
- Good foam properties, good foam quality (finely porous and stable).
- Skin and mucous membrane compatibility of common anionic surfactants that strongly

reduce the quantity of cutaneous fat and are relatively aggressive towards skin and mucosa, are improved by addition of TEGO® Betain F. In hair and skin cleansing preparations TEGO® Betain F can give a conditioning effect because of its substantivity.

- TEGO® Betain F KB 5 contains 0.5% Sodium Benzoate and TEGO® Betain F KM 1 is preserved with 0.1% Methylisothiazolinone.

Application

Both TEGO® Betain F types are very mild and used in all kinds of hair and skin cleansing products:

- shampoos
- shower and bath preparations
- liquid soaps
- intimate hygiene solutions.

They are generally used in combination with anionic surfactants in a weight/weight ratio of 1 : 3 to 1 : 4. (TEGO® Betain F to anionic; related to active matter).

Packaging

880 kg pallet (4 x 220 kg drum)

1000-kg-Container

Bulk

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

Guideline formulations

Foam Bath	
Phase A	
ANTIL® 141 liquid	3.0%
Perfume	q.s
Magnesium Lauryl Sulfate (30%)	48.0%
Phase B	
Water	ad 100%
TEGO® Betain F KB 5	20.0%
Preservative	q.s.
Colour	q.s.
Preparation:	
Mix A and B in the given order; stir B into A.	

Intimate hygiene solution	
Neo PCL water soluble	2.0%
Perfume	0.2%
Sodium Laureth Sulfate (28%)	21.4%
Water	ad 100%
Chlorhexidine Digluconate	0.025%
Chamomille destillate	0.5%
TEGO® Betain F KM 1	10.0%
TEGO® Pearl S 33 KS 5	1.5%
NaCl	0.5%
ANTIL® 171	2.5%
Preservative	q.s.
Preparation:	
Mix A and B in the given order; stir B into A.	

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The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used. (Status: April, 2008)

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Product specification

Material TEGO BETAIN F KB 5
Spec.Code K01 TEGO BETAIN F KB 5

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Inspection Characteristics	Method	Limits	Units	Z
Water Content	GM_0080_01	60.00-65.00	%	X
Sodium Chloride	GM_0160_01	<=6.00	%	X
Monochloroacetic acid	GM_0530_03	<=5.0	ppm	X
pH-Value as is	GM_0130_01	4.0-5.5		X
Active Matter	GM_0060_02	>=31.50	%	X
Colour to Hazen	GM_0140_01	<=150		X
Appearance 20°C	GM_0170_00	OK		X
Dichloroacetic Acid	GM_0530_03	<=15.0	ppm	X
Amidoamine/Amid Ammonium Salts	GM_0510_03	<=0.35	%	X

Appearance 20°C light yellow, clear liquid

Report on inspection certificate: X = specific/actual value, C = unspecific value/conformity, T = not reported

Typical Properties :

MW: free amine 294

MW: active 350

Sodium benzoate content: 0.45 - 0.55 %

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All warranty claims in respect of the conformity of our product are subject to our General Terms and Conditions of Sale and Delivery. The data listed above reflects the criteria for our internal quality tests. We do not hereby make any express or implied warranty, whether for specific properties or for fitness for any particular application or purpose. All values are valid for the product when despatched from the works.

The Standard Test Methods can be obtained from specialized publishers. Evonik's test methods are available on request.

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Print date: 06.07.2015	Valid from:	Version: 2	



TEGO® Betain F KB 5

Product data record

1. General information

1.1 Manufacturer/Supplier

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1.2 Product Description

1.2.1 Raw material category Surfactant

1.2.2 Ingredients according to INCI

Cocamidopropyl Betaine

1.2.3 Composition

Components	Source	Ratio
Cocamidopropyl Betaine	vegetable / synthetic	approx. 30 %
Sodium Chloride		approx. 5.5 %
Glycerol	vegetable	approx. 2 %
Water		approx. 62 %

This composition information serves for information of our customers only.
It is neither relevant for the composition listing according to Regulation (EC) No 1223/2009, nor does it reflect the chemical composition according to the different chemical regulations in the world which is disclosed in the table "information on ingredients/hazardous components" in the relevant parts of the respective (Material) Safety Data Sheets.

1.2.4 Solvents, preservatives and other additives

	CAS No.	EINECS / EC No.	content	Function
Sodium benzoate	532-32-1	208-534-8	0.5 %	preservative
Water	7732-18-5	231-791-2	approx. 62 %	solvent



No components which are listed in Annex II of the Regulation (EC) No 1223/2009 and its modifications and updates are added to and are not to be expected in the above mentioned product due to the raw materials used and the production process.

2. Information on production process

General description of production process:

Conversion of fats/fatty acids and diamine into amidoamine, followed by reaction with chloroacetic acid to produce betaine

The product is not irradiated.

TEGO® Betain F KB 5 is produced in the strictest absence of any animal derived material of any type.

Origin of vegetable starting material: coconut oil

GMO-Status:

The item does not contain ingredients that might have been derived from GM sources. However max 0.9 % cross-contamination is possible. Any protein or DNA is not present. Consequently the product will be PCR negative when tested.

2.1 By products

		method
Residual solvents	not applicable	
Amidoamine/Amid Ammonium Salts	max. 0.35 %	Chromatography
Nitrosamines (Volatile)	not detectable	Chemiluminescence
Monochloroacetic acid	max. 5 ppm	Chromatography
Dichloroacetic acid	max. 15 ppm	Chromatography
1,4-Dioxane	not applicable	
Dimethylaminopropylamine	max. 10 ppm	HPLC
Pesticides	meets the valid regulatory requirements for limits on agricultural pesticides	
Total heavy metals	max. 20 ppm	AAS-ICP
As, Cd, Co, Cr, Hg, Ni, Pb, Sb	Each < 1 ppm	AAS-ICP
Latex	not to be expected in the product due to the raw materials used and the production process	
VOC	< 3 % according to SR (Swiss Right) 814.018	

2.2 CMR (Carcinogenic, Mutagenic or Reprotoxic)

The use in cosmetic products of substances classified as CMR substances, of category 1A or 1B or 2 under Part 3 of Annex VI to Regulation (EC) No 1272/2008 shall be prohibited.



Further Information:

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:342:0059:0209:en:PDF>

Some of the CMR substances mentioned below and listed in Annex VI to Regulation (EC) No 1272/2008 are used as starting materials or solvents for the production of our cosmetic raw materials and may require reporting under California Proposition 65 or the Safe Cosmetics Act, SB 484.

The presence of these prohibited substances has to be seen as non-intended. It is stemming from impurities of the starting materials or the manufacturing process which is technically unavoidable in good manufacturing practice.

CMR substance	Starting material	max. concentration	method
Ethylene Oxide	no		
Propylene Oxide	no		
Octamethylcyclotetrasiloxane (D4)	no		
2-Ethylhexanoic Acid	no		
n-Hexane	no		
Methyl Chloride	no		
Dimethyl Sulphate	no		

2.3 "Allergens" according to the Regulation (EC) No 1223/2009

The presence of substances, the mentioning of which is required under the column 'Other' in Annex III, shall be indicated in the list of ingredients in addition to the terms parfum or aroma.

The cosmetic raw materials and the cosmetic actives supplied by Evonik Personal Care are manufactured without the use of perfumes and fragrances. An analytical proof for the absence in traces of the substances to be mentioned in addition to the terms parfum or aroma is not performed in cosmetic raw materials, which are chemically produced.

None of these substances have been intentionally added to our cosmetic raw materials or are formed during the manufacturing process according to our knowledge of the chemistry.

2.4 Food Ingredients listed in Annex IIIa of Commission Directive 2007/68/EC.

None of these substances have been intentionally added to our cosmetic raw materials or are formed during the manufacturing process according to our knowledge of the chemistry.

3. Microbiological status

Total Viable Count max. 100 cfu/g
Pathogens* absent/g

*Pathogens are: Enterobacteria, Pseudomonas, Enterococci, Candida albicans, Staphylococci



4. Shelf life / storage conditions

24 months after production (unopened original packaging)

5. Regulatory Status

5.1 Customs tariff number 34021900

5.2 Regulatory status (chemical regulations)

Europe

Components	REACH status	CAS No.	EINECS / EC No.
Cocamidopropyl Betaine	Reg. No. 01-2119488533-30	not assigned	931-296-8

Other countries

Country		yes / no	Remark
Australia	AICS:	yes	CAS No. 61789-40-0
China	IECSC:	yes	CAS No. 97862-59-4
Canada	rev. ICL: DSL: NDSL:	yes yes	CAS No. 97862-59-4 is on the revised in-commerce list (for import of the raw material to Canada) CAS No. 61789-40-0 is on the DSL (still possible for export of Cosmetic formulations to Canada)
Taiwan	TCSI:	yes	CAS No. 97862-59-4

In the following countries the relevant authorities currently do not require pre-market approval for cosmetic raw materials:

Brazil, Japan, South Korea, Philippines, USA

5.2.1 Regulatory status (cosmetic regulation)

Country		yes / no	Remark
China	CFDA:	yes	
Japan	JSQI:	yes	JSQI No. 522079, but specifications not controlled

6. Toxicology and Ecotoxicology

Refer to summary of ecotoxicological and toxicological data