

**Kao Corporation, S.A.****Member of Kao Chemicals Europe**

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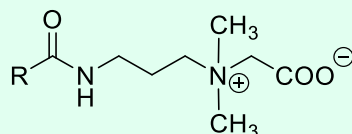
Fax : +34 93 739 93 77

Web : www.kaochemicals-eu.com**BETADET® HR**

The corresponding product is also available in compliance to RSPO rules. In this case the product name is followed by the suffix "MB", which can be found in related order documents, e.g. invoices and/or delivery notes. All these documents also include our RSPO certification number: CU-RSPO SCC-819585

DESCRIPTION

- Amphoteric surfactant
- Thickening and foam boosting co-surfactant
- Vegetable origin
- Mild product

CHEMICAL IDENTIFICATION

R-CO: Hydrogenated Coconut Fatty Acid

INCI / Chemical Name: Cocamidopropyl Betaine

EU CAS Number: 61789-40-0

US CAS Number: 61789-40-0

TECHNICAL SPECIFICATION

		Kao Method
APPEARANCE (20°C):	Transparent liquid	KCSA-258
ODOUR:	Characteristic	KCSA-267
COLOUR (Apha):	Max. 125	KCSA-207
pH (5% in water):	4.0 - 6.0	KCSA-014
VOLATILE MATTER (%):	63 - 66	KCSA-283
SODIUM CHLORIDE (%):	Max. 6	KCSA-058
ACTIVE MATTER (%):	28.5 - 30.5	KCSA-062
MICROBIOLOGICAL CONTROL (cfu/g):	Max. 10	KCSA-339



BETADET® HR

TYPICAL CHARACTERISTICS

DENSITY (20°C, g/mL, "spot"):	Approx. 1.05
FREE AMIDOAMINE (%):	Max. 0.5
VISCOSITY (20°C, cP):	Max. 100
WATER SOLUBILITY (20°C):	Soluble
CHARACTER:	Amphoteric

APPLICATION PROPERTIES

- BETADET® HR is a zwitterionic compound, used primarily in the cosmetic industry as a pseudo amphoteric surfactant in shampoos, conditioners and other cleansing preparations.
- It is compatible blended with other anionic, amphoteric and non-ionic surfactants, giving transparent formulations and high foaming products.
- Main functions of BETADET® HR:
 - It decreases the irritation level of usual anionic surfactants.
 - Foam Booster: it increases foam level and modifies the quality of the foam.
 - It performs as a viscosity modifier allowing the reduction of sodium chloride in the final formula.
 - Conditioning effect: due to its quaternised nitrogen, BETADET® HR has some substantive effect on the skin and hair. It should be also considered as conditioning agent.
- BETADET® HR is stable at alkaline or acid conditions. It doesn't present hydrolysis problems.
- Even though BETADET® HR is widely used in the cosmetic industry, its foam and stability properties also allow to recommend it for household and industrial cleaners: washing up, liquid detergent, etc.

STORAGE-HANDLING-SHELF LIFE

- BETADET® HR is chemically stable for a long period of time under appropriate storage conditions (temperature of 25°C and original unopened container).
- If stored for a long period of time, it is advisable to homogenize the product before use, especially if it has been subjected to low temperatures. Small changes in the appearance can be easily recovered by applying a moderate agitation at 25-30°C. A general recommendation is to use the full container every time.
- The shelf life of BETADET® HR can be considered of 2 years minimum under proper storage conditions. After longer storage time some of its characterising parameters (*odour, appearance, colour, pH...*) should be checked before using it.

The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purpose. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.

