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C.F. : MRGMFR66A69L378D

Technical Information

REWOTERIC® AM 2 C NM

Concentrated, mild amphoteric surfactant for hair and skin cleansing formulations

Intended use

Surfactant

Benefits at a glance

- concentrated product
- easy to handle
- mild amphoteric surfactant
- improves conditioning on skin and hair at a low pH
- preservative-free

INCI (PCPC name)

Disodium Cocoamphodiacetate

Chemical and physical properties (not part of specifications)	
Appearance (20 °C)	liquid
Character	amphoteric

Properties

REWOTERIC® AM 2 C NM is especially suitable for applications with pH between 4 and 9.

REWOTERIC® AM 2 C NM exhibits good foaming properties, even in the presence of oil or soap. It is a very good wetting agent and lime soap dispersing agent. It exhibits high resistance to hard water and foams very well even when using salt water. REWOTERIC® AM 2 C NM is compatible with anionic, non-ionic and other amphoteric surfactants.

Due to its low viscosity REWOTERIC® AM 2 C NM is easy to handle.

Application

REWOTERIC® AM 2 C NM shows very good skin and mucous membrane compatibility. It is recommended for use in products for sensitive skin as well as products for daily use such as skin- and hair cleansers.

When adding REWOTERIC® AM 2 C NM to anionic surfactants used in personal care formulations it enhances the following properties:

- Mucous membrane compatibility
- Skin compatibility
- Quality of foam
- Quantity of foam even in the presence of grease or oil
- Resistance to hard water

REWOTERIC® AM 2 C NM is used in personal care products such as:

- Baby shampoos
- Baby baths
- Skin cleansers for sensitive skin
- Shower shampoos, mild and caring
- Intimate hygiene
- Liquid soaps, very mild

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Suggested usage concentration

3 – 30% REWOTERIC® AM 2 C NM

Packaging

800 kg pallet (4 x 200 kg)
1 000 kg container bulk

Storage and processing recommendation

- REWOTERIC® AM 2 C NM tends to increase viscosity over time.
- Recommended storage at 10 – 25°C.
- Storage temperature below 10 – 15 °C can cause cloudiness, which does not indicate a loss of quality. A clear solution can be obtained again by slowly heating the material while stirring. Overheating should be avoided.
- Freezing should be avoided.
- Extended storage at temperatures above 25 °C can cause an irreversible increase in viscosity and a different behaviour when formulation with it.

Guideline formulations

Shower Gel KA 05255	
Water	50.2%
Polyquaternium-10	0.3%
Sodium Laureth Sulfate, 28%	36.0%
REWOTERIC® AM 2 C NM	6.0%
ANTIL® HS 60 (Cocamidopropyl Betaine, Glyceryl Laurate)	5.0%
TEGOSOFT® GC PEG-7 Glyceryl Cocoate	1.6%
Sodium Chloride	0.9%
Preparation: Mix the ingredients in the given order and stir. Adjust the pH value to approximately 5.5 with citric acid. Finally add preservatives as required.	

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 accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

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Baby Bath ST-BB 3	
Sodium Laureth Sulfate, 28%	30.0%
REWOTERIC® AM 2 C NM (Disodium Cocoamphodiacetate)	10.0%
REWOPOL® SB CS 50 B (Disodium PEG-5 Laurylcitrate Sulfosuccinate; Sodium Laureth Sulfate)	6.0%
REWODERM® LI S 80 (PEG-200 Hydrogenated Glyceryl Palmate; PEG-7 Glyceryl Cocoate)	3.0%
Water	app. 48.8%
Citric Acid Monohydrate	app. 0.2%
Sodium Chloride	app. 2.0%
Preservative	q.s.

Preparation:
Mix the components in the given order and stir. The solution process can be speeded up by heating to approximately 35 °C. Adjust the pH value at room temperature with citric acid to approximately 6.5. Finally add preservatives as required.

2 Phase Oil Bath FM 10262	
Olive olea europeae Oil	7.0%
TEGOSOFT® TN (C12-15 Alkyl Benzoate)	20.0%
Sodium Laureth Sulfate, 28%	40.0%
TEGO® Alkanol L 4 (Laureth-4)	2.0%
Water	21.0%
REWOTERIC® AM 2 C NM	10.0%
Preservative	q.s.

Preparation:
Blend phases A and B separately. Then mix phase B in phase A and adjust the pH value to approximately 6. Finally add preservatives as required.
Remarks: upper phase looks like a white emulsion, lower phase is clear and yellow.

E 08/16

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Product specification

Material REWOTERIC AM 2 C NM
Spec.Code K00 AM2CNM

Inspection Characteristics	Method	Limits	Units	Z
Active Matter	GM_0500_07	>=39.00	%	X
pH-Value 12,5% solids	GM_0131_01	8.0-8.6	pH-Value	X
Sodium Chloride	GM_0160_01	9.00-10.00	%	X
Colour to Gardner	GM_0140_01	<=4.0		X
Solid content	GM_0090_02	49.00-51.00	%	X
Monochloroacetic acid	GM_0530_05	<=30.0	ppm	X
Colour to Hazen 20 %	GM_0140_01	<=100		X
Appearance 20°C	GM_0170_00	OK		X

Appearance 20°C	yellow, clear liquid

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

This document is computer printed and therefore valid without signature.
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.

Material: REWOTERIC AM 2 C NM		Spec-Code: K00 AM2CNM	Page 1 from 1
Print date: 06.07.2015	Valid from: 27.11.1999	Version: 1	

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REWOTERIC® AM 2 C NM

Product data record (PDR)

1. General information

1.1 Supplier

1.2 Product Description

1.2.1 Raw material category Amphoteric Surfactant

1.2.2 Ingredients according to INCI

Disodium Cocoamphodiacetate

1.2.3 Composition

Components	Source	Ratio
Disodium Cocoamphodiacetate	vegetable/ synthetic	approx. 40.5 %
Water		approx. 50 %
Sodium Chloride		approx. 9.5 %

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
Water	7732-18-5	231-791-2	approx. 50 %	solvent

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Unless mentioned in our PDR under section 2.1 (By products) or 2.2 (CMR), 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:
An alkyl-hydroxyethylimidazoline will be acylated in watery medium with monochloro acetic acid under pH-control. Then the pH value will be adjusted.

The product is not irradiated.

REWOTERIC® AM 2 C NM is produced in the strictest absence of any animal derived material of any type.

Residual plant based source (dominant origin of main constituents): palm kernel 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	Water	
Various total amides	max. 1 %	Chromatography
Nitrosamines	not detectable (detection limit 10 ppb)	Chemiluminescense
Monochloroacetic acid	< 30 ppm	Chromatography
Dichloroacetic acid	< 30 ppm	Chromatography
1,4-Dioxane	not applicable	
Pesticides	meets the valid regulatory requirements for limits on agricultural pesticides	
Others	PAHs < 25 ppb from spot trials	
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	

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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		
Aminoethylethanolamine (AEEA)	yes	5 ppm	HPLC

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 perfume 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 perfume 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 II of Regulation (EU) No 1169/2011

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.

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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

720 days after production (unopened original packaging)

5. Regulatory Status

5.1	HS-Code	340219
	EU-CN-Code	34021900

5.2 Regulatory status (chemical regulations)

Europe

Components	REACH status	CAS No.	EINECS / EC No.
Disodium Cocoamphodiacetate	Reg. No. 01-2119487973-19	not assigned	931-291-0

Other countries

Country		yes / no	Remark
Australia	AICS:	yes	CAS No. 68650-39-5
China	IECSC:	yes	CAS No. 68650-39-5
Canada	DSL: NDSL:	yes	CAS No. 68650-39-5
Taiwan	TCSI:	yes	CAS No. 68650-39-5

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. 521161, but specifications not controlled

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6. Toxicology and Ecotoxicology

Refer to summary of ecotoxicological and toxicological data

7. Packaging

Standard packaging: 800 kg (4 x 200 kg drum) for EMEA, NAFTA, ASIA, LATAM
Regional standard packaging: 1000 kg IBC for EMEA, NAFTA, ASIA, LATAM