

MATERIAL SAFETY DATA SHEET

Document drafted on: 2005-05-16
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Rokamina K40

1. Identification of the substance and of the company

Product name

Trade name: Rokamina K40

Application

Rokamina K40 is used as a component of high-quality shampoos and bubble baths, as well as a component of washing and cleaning agents.

Rokamina K40 can be used in oxidizing, reducing and hard water environments. It is active in cold water, in an acid and neutral bath, as well as in diluted alkalis.

Producer

PCC Rokita SA, ul. Sienkiewicza 4, 56-120 Brzeg Dolny, Poland

Specialty Chemicals Business Unit

Telephone: (+4871) 319 24 32 or 319 26 97; Fax: (+4871) 319 28 02 or 319 25 50

Emergency telephone number:

Telephone: (+4871) 319 25 55, 319 24 41 or 319 26 90 (fax) at PCC Rokita SA or the closest local Fire Brigade

2. Composition / information on ingredients

Chemical name:	Coconut oil acid amidopropylbetaine	
Molecular formula:	RCO-NH(CH ₂) ₃ N ⁺ (CH ₃) ₂ CH ₂ COO ⁻ , where R – coconut oil acid alkyl radical (C ₁₂ -C ₁₈)	
Component names:	Coconut oil acid amidopropylbetaine (C ₁₂ -C ₁₈) (min. 38% m/m)	Water (max. 56% m/m)
Hazard symbol:	Xi; R36/38	
Index number:	–	
CAS number(s):	61789-40-0	
EC Number (EINECS):	263-058-8	
Additional information:	INCI name: Cocamidopropyl betaine Synonyms: CADG; Cocamidopropyl dimethyl glycine	

3. Hazards identification

Irritant (Xi).

Irritating to eyes and skin (R 36/38).

Rokamina K40 stored in appropriate polyethylene containers or drums as specified in sec. 7 poses no hazard.

4. First aid measures

Inhalation

Under normal conditions poses no hazard.

Skin contact

Take off all contaminated clothing. After contact with skin, wash with plenty of water. Launder clothing before reuse.

Eye contact

Irrigate copiously with fresh water for at least 15 minutes. Consult ophthalmologist.

Ingestion

Do not induce vomiting (risk of choking because of substance foaming). Make sure the respiratory system is free. If the casualty is unconscious, lay him in the recovery position. Seek medical attention.

Additional information

Toxicological effect/exposure symptoms: contact of the liquid with skin causes skin drying out, eye contact causes irritation.

Notes to physician: no special detoxifier or antidote. Apply symptomatic treatment. Persons who inhaled fumes (e.g. produced during a fire) must remain under medical supervision for at least 24-48 hours.

5. Fire fighting measures

Suitable extinguishing media

Extinguish with water spray, foam, carbon-dioxide or dry powder.

Extinguishing media which must not be used for safety reasons

Not known.

Special hazards

Cool down drums exposed to fire or high temperature with water spray and, if possible, remove from the hazardous area.

Special protective equipment for fire-fighters

Fire-fighters staying in the hazardous area must wear suitable protective clothing and protective equipment.

Additional information

Rokamina K40 is not flammable. In case of fire, after water evaporation (55%) may support fire.

6. Accidental release measures

Personal precautions

Avoid contact with the substance.

Environmental precautions

Prevent penetration into drains or sewage systems, ground or surface water and soil.

Methods for cleaning / disposal

If possible, eliminate the spill (e.g. seal tight, place the damaged packaging in an emergency packaging). Contain the spreading of the spill by bunding. Soak up the spill with absorbent material (e.g. earth, sand), collect into a closed container (non-metal) and recycle or neutralize in compliance with the regulations in force (see sec. 13). Wash the contaminated area thoroughly with water.

Additional information

Spill may cause surface to be slippery.

7. Handling and storage

Handling

Handle in compliance with general safety and industrial hygiene standards. Prevent access of unauthorised persons.

Storage

Store in a tightly closed container in a roofed area, at a temperature of up to 30 °C. Guaranteed period of stability: 12 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying the conformity of its parameters with the technical requirements. In case of non-conformity, application tests should be performed.

Specific applications

Not known.

8. Exposure controls/personal protection

Exposure control parameters

MAC (TWA) and MAC (STEL): not specified.

Personal protective equipment:

Respiratory protection

Not required in normal use.

Eye and face protection

Required – wear tightly fitting safety goggles if there is a risk of direct contact.

Hand protection

Required – rubber gloves.

Skin protection

Protective clothing.

Hygiene measures

Avoid clothing contamination. Wash hands and face after use. When using do not eat or drink.

9. Physical and chemical properties

Appearance:	liquid
Colour:	pale yellow
Odour:	weak, characteristic
pH:	4.5-5.5 (1% solution at 20 ⁰ C)
Temperature	
melting:	approx. -10 ⁰ C
boiling:	approx. 100 ⁰ C (water evaporates)
flash-point:	not applicable
self-ignition:	not applicable
Flammability:	non-flammable
Explosive properties	
upper and lower explosion limit:	not applicable
Oxidizing properties:	not applicable
Vapour pressure:	approx. 2.4 kPa at for a solvent at 20 ⁰ C
Relative density:	approx. 1.08 g/cm ³ at 20 ⁰ C
Solubility	
in water:	unlimited
in organic solvents:	ethanol, isopropyl alcohol
Partition coefficient: n-octanol/water:	no data available
Other properties:	NaCl content: 5.8-7.3%

10. Stability and reactivity

Stability	Product stable under normal conditions
Conditions to avoid	During storage avoid temperatures outside the range specified in sec. 7
Materials to avoid	Due to chloride content, Rokamina K40 may cause pitting corrosion of aluminium, carbon steel and acid-resistant steel sensitive to NaCl
Hazardous decomposition products	Carbon oxide, nitrogen oxides, organic thermal partial decomposition products

11. Toxicological information

Acute oral toxicity	LD ₅₀ (rat) of approx. 5,900 mg/kg
Inhalation toxicity	No data available

Skin contact	Concentrate of Rokamina K40 and a 50% aqueous solution are slightly irritating to rabbit skin Prolonged skin contact causes irritation
Eye contact	One-time eye contact with pure substance causes strong reddening and pus excretion; 10% aqueous solution of the substance causes slight rabbit eye irritation; 1% aqueous solution of Rokamina K40 does not cause pathological changes
Ingestion	No data available
Additional information	Substance is slightly allergenic in the Magnusson and Kligman scale

12. Ecological information

Ecotoxicity	No data available
Mobility	Known or predicted distribution to environmental compartments - hard-volatile product, well soluble in water After dissolving in water may penetrate to groundwater Surface tension of a 0.1% solution – approx. 35 mN/m
Persistence and degradability	
Persistence	Biodegradation of 91%, specified in compliance with ISO 9888:1991 (E) and methodology presented in the Guidelines for Testing of Chemicals – OECD 302 B
Degradability	Ultimate aerobic biodegradation specified using the closed bottle method as per Directive 67/548/EEC, Annex V.C.4-E equals 60%
Bioaccumulation potential	No data available
Other adverse effects	Rokamina K40 causes strong foaming of aqueous solutions

13. Disposal Considerations

Product

Do not dispose of to drains or sewage system. Prevent penetration into ground or surface water. Do not landfill inert waste. Waste product should be recycled or neutralized in compliance with the regulations in force (Waste Act) in facilities or equipment that meet relevant requirements (authorized plants or producer).

Packaging

Empty packaging should be treated as hazardous waste. Packaging can be re-used if thoroughly washed several times with water or treated using an equivalent cleaning procedure. Best results are obtained by washing immediately after emptying the packaging. Recycling or neutralization of the packaging should comply with the regulations in force (Packaging and Packaging Waste Act).

14. Transport information

Road transport ADR/RID	Limitations resulting from ADR and RID regulations do not apply Covered means of transport recommended.
Sea transport IMDG	Limitations resulting from IMDG regulations do not apply
Air transport ICAO-TI and IATA-DGR	No data available

15. Regulatory information

This Material Safety Data Sheet has been drafted in compliance with the Act on Chemical Substances and Preparations of 11 January 2001 (*Official Journal* Dziennik Ustaw 2001, No. 11, item 84), as amended.

Template for the Material Safety Data Sheet has been taken from the Regulation of the Minister of Health on Safety Data Sheets for Hazardous Substances and Preparations of 3 July 2002 (*Official Journal* Dziennik Ustaw 2002, No. 140, item 1171) as amended.

Additional regulations:

Packaging labelling – as per the Regulation of the Minister of Health on Hazardous Substance and Preparation Labelling of 2 September 2003 (*Official Journal* Dziennik Ustaw 2003, No. 173, item 1679), as amended.



Irritant (Xi)

R-phrases

R 36/38 Irritating to eyes and skin

S-phrases

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 28 After contact with skin, wash immediately with plenty of water

S 37/39 Wear suitable gloves and eye/face protection

16. Other information

List of R-phrases	R 36/38	Irritating to eyes and skin
Training required	Customers applying Rokamina K40 should carefully read this Material Safety Data Sheet	
Recommended application restrictions	Not known	
Further information can be obtained from	Producer	
Source of information	Industrial practice and reference data	
Modifications in the sheet	Section 12 (degradability)	
Additional information	Information given herein refers solely to the technical product and ceases to be valid after its processing	
	MSDS version: 2	

Information presented herein is given based on our most contemporary knowledge and it describes the product in terms of health care, environment protection and safe handling requirements. It shall not be understood as a guarantee of specific properties of the product.