

## MATERIAL SAFETY DATA SHEET

Document drafted on: 2005-05-16  
Document up-dated on: 2005-10-05

# Rokamina K30

### 1. Identification of the substance and of the company

**Product name**

Trade name: Rokamina K30

**Application**

Rokamina K30 is used as a component of high-quality shampoos and bubble baths.

**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

<b>Chemical name:</b>	Coconut oil acid amidopropylbetaine	
<b>Molecular formula:</b>	RCO-NH(CH <sub>2</sub> ) <sub>3</sub> N <sup>+</sup> (CH <sub>3</sub> ) <sub>2</sub> CH <sub>2</sub> COO <sup>-</sup> , where R – coconut oil acid alkyl radical (C <sub>12</sub> -C <sub>18</sub> )	
<b>Component names:</b>	Coconut oil acid amidopropylbetaine (C <sub>12</sub> -C <sub>18</sub> ) (min. 27% m/m)	Water (max. 66% m/m)
<b>Hazard symbol:</b>	Xi; R36/38	
<b>Index number:</b>	–	
<b>CAS number(s):</b>	61789-40-0; 70851-07-9; 83138-08-3; 86438-79-1	
<b>EC Number (EINECS):</b>	263-058-8; 274-923-4	
<b>Additional information:</b>	INCI name: Cocamidopropyl betaine Synonyms: CADG; Cocamidopropyl dimethyl glycine Sodium chloride content: max. 5.5% m/m	

### 3. Hazards identification

Irritant (Xi).

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

### 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. Put the casualty in the recovery position. Seek medical attention.

**Additional information**

Toxicological effect/exposure symptoms: skin contact of the liquid causes skin degreasing. 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.

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**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 K30 is not flammable. In case of fire, after water evaporation (60%) may support fire.

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**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 container and recycle or dispose of in compliance with the regulations in force (see sec. 13). Wash the contaminated area with water.

**Additional information**

Spill may cause surface to be slippery.

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**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<sup>0</sup>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.

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**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.

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**9. Physical and chemical properties**

<b>Appearance:</b>	liquid
<b>Colour:</b>	pale yellow
<b>Odour:</b>	weak, characteristic
<b>pH:</b>	5.0-7.0 (1% solution at 20 <sup>0</sup> C)
<b>Temperature</b>	
<b>melting:</b>	approx. 0 <sup>0</sup> C
<b>boiling:</b>	approx. 100 <sup>0</sup> C (water evaporates)
<b>flash-point:</b>	above 180 <sup>0</sup> C
<b>self-ignition:</b>	not applicable
<b>Flammability:</b>	non-flammable
<b>Explosive properties</b>	
<b>upper and lower explosion limit:</b>	not applicable
<b>Oxidizing properties:</b>	not applicable
<b>Vapour pressure:</b>	approx. 2.4 kPa at for a solvent at 20 <sup>0</sup> C
<b>Relative density:</b>	approx. 1.04 g/cm <sup>3</sup> at 20 <sup>0</sup> C
<b>Solubility</b>	
<b>in water:</b>	unlimited (at 20 <sup>0</sup> C)
<b>in organic solvents:</b>	ethanol, isopropyl alcohol
<b>Partition coefficient: n-octanol/water:</b>	no data available

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**10. Stability and reactivity**

<b>Stability</b>	Product stable under normal conditions.
<b>Conditions to avoid</b>	During storage avoid temperatures outside the range specified in sec. 7
<b>Materials to avoid</b>	Due to chloride content, Rokamina K30 may cause pitting corrosion of aluminium and steel
<b>Hazardous decomposition products</b>	Carbon oxide, nitrogen oxides, organic thermal partial decomposition products

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**11. Toxicological information**

<b>Acute oral toxicity</b>	LD <sub>50</sub> of 5,926 mg/kg and ranging from 4,712 mg/kg to 7,455 mg/kg
<b>Inhalation toxicity</b>	No data available
<b>Skin contact</b>	Concentrate of Rokamina K30 and a 50% aqueous solution are slightly irritating to rabbit skin Prolonged skin contact causes irritation

<b>Eye contact</b>	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 K30 does not cause pathological changes
<b>Ingestion</b>	No data available
<b>Additional information</b>	Allergenic effect: substance is slightly allergenic in the Magnusson and Kligman scale

## 12. Ecological information

<b>Ecotoxicity</b>	
Toxicity to aquatic organisms	Toxicity to fish (LC <sub>50</sub> ): 2 mg/l Acute and chronic toxicity (EC <sub>50</sub> ): (Ps. Putida) above 100 mg/l Algae growth inhibition (EC <sub>50</sub> ): 3.3 mg/l Daphnia growth inhibition (EC <sub>50</sub> ): 1.9 mg/l
Toxicity to soil organisms, land plants and animals	No data available
<b>Mobility</b>	Known or predicted distribution in various ecosystem compartments - hardly volatile product, soluble in water, after dissolving in water may penetrate to groundwater Surface tension of a 0.1 % solution – approx. 35 mN/m
<b>Persistence and degradability</b>	
Persistence	Primary 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 76.3%.
<b>Bioaccumulation potential</b>	No data available
<b>Other adverse effects</b>	Rokamina K30 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

<b>Road transport ADR/RID</b>	Limitations resulting from ADR and RID regulations do not apply Covered means of transport recommended
<b>Sea transport IMDG</b>	Limitations resulting from IMDG regulations do not apply
<b>Air transport ICAO-TI and IATA-DGR</b>	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

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## 16. Other information

**List of R-phrases** R 36/38 Irritating to eyes and skin

**Training required** Customers applying Rokamina K30 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

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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.