

MATERIAL SAFETY DATA SHEET

Document drafted on: 2005-03-30
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Rokamid KAD

1. Identification of the substance and of the company

Product name

Trade name: Rokamid KAD

Application

Rokamid KAD is used in cosmetic products and household chemicals as a detergent which increases preparation viscosity and stabilises foam. It has emulsifying, wetting and solubilising properties.

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 diethanolamide
Chemical formula:	$RCON(C_2H_5OH)_2$, where: R – coconut oil fatty acid alkyl radical ($C_{12}-C_{16}$)
Component names:	Coconut oil acid diethanolamide (coconut oil fatty acid N,N-bis(2-hydroxyethylene) amide) (approx. 90% m/m)
Hazard symbol:	Xi; R36/38
Index number:	–
CAS number(s):	68603-42-9
EC Number (EINECS):	271-657-0
Additional information:	INCI name: Cocamide DEA Diethanolamine content: max. 4.0% m/m

3. Hazards identification

Irritant (Xi).

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

Rokamid KAD 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. Put the casualty 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. Symptomatic treatment recommended, 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.

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.

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 30⁰C. 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:	clear or slightly turbid viscous liquid
Colour:	pale yellow
Odour:	characteristic of coconut oil
pH:	7.5-10.5 (1% solution at 20 ⁰ C)
Temperature	
melting:	approx. 0 ⁰ C
boiling:	above 200 ⁰ C (with decomposition)
flash-point:	above 180 ⁰ C
self-ignition:	not applicable
Flammability:	flammable
Explosive properties	
upper and lower explosion limit:	not applicable
Oxidizing properties:	not applicable
Vapour pressure:	low at 20 ⁰ C
Relative density:	approx. 0.98 g/cm ³ at 20 ⁰ C
Solubility	
in water:	creates dispersion
in organic solvents:	acetone, ethanol, isopropanol, chloroform
Partition coefficient: n-octanol/water:	no data available
Other properties:	viscosity at 20 ⁰ C: approx. 1000 mPa·s

10. Stability and reactivity

Stability	Product stable under normal conditions. Storage of Rokamid KAD at a temperature above 40 ⁰ C may result in the formation of amidoesters, in order to reverse this reaction, store the product at room temperature for 7 days
Conditions to avoid	During storage avoid temperatures outside the range specified in sec. 7
Materials to avoid	Reacts with strong oxidizing agents, causes aluminium corrosion
Hazardous decomposition products	Carbon oxide, nitrogen oxides, organic partial decomposition products

11. Toxicological information

Acute oral toxicity	LD ₅₀ (rat) of above 9,940 mg/kg (above maximum test dose)
Inhalation toxicity	Under normal conditions poses no hazard
Skin contact	Concentrate of Rokamid KAD and a 50% aqueous solution are slightly irritating to rabbit skin; prolonged skin contact causes irritation
Eye contact	Over 10% product solution is slightly irritating to rabbit eyes; lower concentrations have not been observed to cause any pathological changes

Ingestion	Ingestion may damage the digestive system
Additional information	Allergenic effect: Product is moderately allergenic in the Magnusson and Kligman scale (2)

12. Ecological information

Ecotoxicity	
Toxicity to aquatic organisms	Toxicity to fish: LC ₅₀ of 6.9 mg/l Toxicity to daphnia: LC ₅₀ of 6.2 mg/l Toxicity to algae: LC ₅₀ of 5.6 mg/l
Toxicity to soil organisms, land plants and animals	No data available
Mobility	Known or predicted distribution in various ecosystem compartments – hardly volatile product, soluble in water, after dissolving in water may penetrate to groundwater
Persistence and degradability	
Persistence	Primary biodegradation around 83.3%, specified in compliance with 82/242/EEC
Degradability	Ultimate aerobic biodegradation specified by manometric respirometry as per Directive 67/548/EEC, Annex V.C.4-D equals 71.1%
Bioaccumulation potential	No data available
Other adverse effects	Rokamid KAD may cause foaming in a wastewater treatment plant

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 Rokamid KAD should carefully read this Material Safety Data Sheet
Recommended application restrictions	Recommended to be used in industrial conditions
Further information can be obtained from	Producer
Source of information	ESIS: European Chemical Substances Information System Acute toxicity was determined at the Department of Pathomorphology, Institute of Agricultural Medicine in Lublin
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.