

## MATERIAL SAFETY DATA SHEET

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# Rokacet R40

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

**Product name**

Trade name: Rokacet R40

**Application**

Rokacet R40 is used as an oil, fat and wax emulsifier and as an antielectrostatic agent in textile preparations.

Rokacet R40 aqueous solutions are resistant to acids, hard water and partly to alkalis. It can be mixed with non-ionic, cationic and anionic agents both in water-free environments and in aqueous solutions.

**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>	Ethoxylated triglyceride of castor oil and alfahydroxy acids	
<b>Chemical formula:</b>	$\begin{array}{c} \text{CH}_2\text{-OCORO}(\text{CH}_2\text{CH}_2\text{O})_x\text{H} \\   \\ \text{CH-OCORO}(\text{CH}_2\text{CH}_2\text{O})_y\text{H} \\   \\ \text{CH}_2\text{-OCORO}(\text{CH}_2\text{CH}_2\text{O})_z\text{H, where: } x+y+z \cong 40, \text{ R} = \text{C}_{17}\text{H}_{33}\text{COOH or} \\ \text{R} = \text{C}_{17}\text{H}_{32}\text{OHCOOH} \end{array}$	
<b>Component names:</b>	Ethoxylated triglyceride of castor oil (min. 99,0% m/m)	Water (max. 1.0% m/m)
<b>Hazard symbol:</b>	Xi; R36/38	
<b>Index number:</b>	-	
<b>CAS number(s):</b>	61791-12-6	
<b>EC Number (EINECS):</b>	Polymer	
<b>Additional information:</b>	INCI name: PEG-40 Castor Oil	

### 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 immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water.

**Eye contact**

Irrigate copiously with fresh water for at least 15 minutes with eyelids rolled up. Immediately seek ophthalmologist attention.

**Ingestion**

Do not give anything to drink. Do not induce vomiting. Seek medical attention.

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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**

Due to a high flash point (above 110<sup>0</sup>C), the product is slow-burning. In case of fire, hazardous decomposition gaseous products or fumes may be formed. Cool drums or containers exposed to fire or high temperature with water. 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**

Fume emission should be stopped using water spray.

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**6. Accidental release measures****Personal precautions**

Do not inhale fumes. Avoid contact with the substance.

**Environmental precautions**

Prevent penetration of large product volumes 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.

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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 40<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. If the product does not comply with the requirements, contact the manufacturer.

**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**

Required if fumes are formed.

**Eye and face protection**

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

**Hand protection**

Rubber or plastic 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>	paste or paste with a semi-liquid consistency subject to stratification, homogeneous liquid when heated to 50 °C and mixed
<b>Colour:</b>	pale yellow
<b>Odour:</b>	characteristic
<b>pH:</b>	6.5-8.0 (1% solution)
<b>Temperature</b>	
<b>solidification:</b>	approx. 20°C
<b>boiling:</b>	no data available
<b>flash-point:</b>	above 110°C (in a closed crucible)
<b>self-ignition:</b>	no data available
<b>Flammability:</b>	slow-burning
<b>Explosive properties</b>	
<b>upper and lower explosion limit:</b>	no data available
<b>Oxidizing properties:</b>	no data available
<b>Vapour pressure:</b>	negligible at room temperature
<b>Relative density:</b>	approximately 1.04 g/ml at 30°C
<b>Solubility</b>	
<b>in water:</b>	good
<b>in organic solvents:</b>	alcohols, oils, fatty acids
<b>Partition coefficient: n-octanol/water:</b>	no data available
<b>Other properties:</b>	saponification value: 55-64 mg KOH/g iodine value: 25-35 gJ <sub>2</sub> /100g oleic acid emulsion stability: min. 3h

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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>	Strong oxidising agents
<b>Hazardous decomposition products</b>	Carbon oxide, organic partial decomposition products
<b>Additional information</b>	No risk of hazardous exothermic reaction

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**11. Toxicological information**

<b>Acute oral toxicity</b>	LD <sub>50</sub> approx. 75,000 mg/kg (reference data)
<b>Inhalation toxicity</b>	Hot substance fumes cause irritation of upper respiratory tract

<b>Skin contact</b>	Skin contact of the undiluted substance and its concentrated aqueous solutions may cause inflammatory reaction
<b>Eye contact</b>	Contact of the pure substance with eyes may cause conjunctiva irritation, eyelid oedema and injury and corneal opacity
<b>Ingestion</b>	Ingestion may cause irritation of the digestive system
<b>Additional information</b>	Other hazardous properties can not be ruled out

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## 12. Ecological information

<b>Ecotoxicity</b>	No data available
<b>Mobility</b>	Hardly volatile, soluble in water, after dissolving in water may penetrate into ground water
<b>Persistence and degradability</b>	
Persistence	Primary biodegradation around 80%, specified in compliance with 82/242/EEC
Degradability	Ultimate aerobic biodegradation specified using the closed bottle method as per Directive 67/548/EEC, Annex V.C.4-E equals 66.0%
<b>Bioaccumulation potential</b>	Does not bioaccumulate
<b>Other adverse effects</b>	Effect on the operation of sewage treatment plants – may cause foam formation

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## 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).

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## 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

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## 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**

<b>List of R-phrases</b>	R 36/38	Irritating to eyes and skin
<b>Training required</b>	Customers applying Rokacet R40 should carefully read this Material Safety Data Sheet	
<b>Recommended application restrictions</b>	Product designed only for professional application	
<b>Further information can be obtained from</b>	Producer	
<b>Source of information</b>	Own research and generally available reference data	
<b>Modifications in the sheet</b>	Section 12 (degradability)	
<b>Additional information</b>	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.