

MATERIAL SAFETY DATA SHEET

Polikol 400

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1. Identification of the substance and of the company

Product name

Trade name: Polikol 400

Application

Polikol 400 is used as a softening and antielectrostatic agent in textile, paper and cosmetic industries.

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:	Polyoxyethylene glycol	
Chemical formula:	C ₁₆ H ₃₄ O ₉	
Component names:	Polyoxyethylene glycol (min. 99% m/m)	Water (max. 1% m/m)
Hazard symbol:	Not applicable	
Index number:	-	
CAS number(s):	5117-19-1	
EC Number (EINECS):	225-856-4	
Additional information:	INCI name: PEG-8	

3. Hazards identification

The substance is not hazardous within the meaning of the Regulation of the Minister of Health on the Criteria and Method of Classification of Chemical Substances and Preparations of 2 September 2003 (*Official Journal Dziennik Ustaw* 2003, No. 171, item 1666).

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.

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 150°C), the product is classified as 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

Vapour emission should be stopped using water spray.

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.

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 (preferably in a polyethylene drum) in a roofed area, at a temperature of up to 40°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.

8. Exposure controls/personal protection

Exposure control parameters

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

Personal protective equipment:

Respiratory protection

Required if fumes are formed.

Eye and face protection

Required – wear tightly fitting safety goggles if vapour is 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.

9. Physical and chemical properties

Appearance:	liquid
Colour:	colourless to straw
Odour:	slight
pH:	4.6-7.4 (10% solution at 20 ⁰ C)
Temperature	
solidification:	approx. 5 ⁰ C
boiling:	no data available
flash-point:	above 150 ⁰ C
self-ignition:	no data available
Flammability:	slow-burning
Explosive properties	
upper and lower explosion limit:	no data available
Oxidizing properties:	no data available
Vapour pressure:	negligible at room temperature
Relative density:	approx. 1.13 g/ml at 20 ⁰ C
Solubility	
in water:	good
in organic solvents:	low aliphatic alcohols, diethyl ether, chloroform
Partition coefficient: n-octanol/water:	no data available
Other properties:	viscosity: approx. 100 mPa·s at 20 ⁰ C hydroxyl value: 270-300 mg KOH/g

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

11. Toxicological information

Acute oral toxicity	LD ₅₀ (rat) of approx. 44,000 mg/kg (reference data)
Inhalation toxicity	Hot substance fumes cause irritation of upper respiratory tract
Skin contact	Skin contact of the undiluted substance and its concentrated aqueous solutions may cause skin degreasing
Eye contact	Contact of the pure substance with eyes may cause conjunctiva irritation, eyelid oedema and injury and corneal opacity
Ingestion	Ingestion may cause irritation of the digestive system
Additional information	Other hazardous properties can not be ruled out

12. Ecological information

Ecotoxicity	No data available
Mobility	Good solubility in water, after dissolving in water may penetrate into groundwater
Persistence and degradability	
Persistence	Biodegradation around 89%, specified in compliance with 82/242/EEC
Degradability	Does not cause biological oxygen deficit
Bioaccumulation potential	Does not bioaccumulate
Other adverse effects	No data available

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 waste other than 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.

16. Other information

List of R-phrases	None
Training required	Customers applying Polikol 400 should carefully read this Material Safety Data Sheet
Recommended application restrictions	Product designed only for professional application
Further information can be obtained from	Producer

Source of information	Own research and generally available reference data
Modifications in the sheet	Not applicable
Additional information	Information given herein refers solely to the technical product and ceases to be valid after its processing
	MSDS version: 1

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.