

## MATERIAL SAFETY DATA SHEET

# Polikol 200

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

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

#### Product name

Trade name: Polikol 200

#### Application

Polikol 200 is used as a component of ink and drawing ink and as a plasticizer in the paper industry. It mixes very well with water and aliphatic alcohols of low molecular weight.

#### 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>	Polyoxyethylene glycol (4)	
<b>Molecular formula:</b>	C <sub>8</sub> H <sub>18</sub> O <sub>5</sub>	
<b>Component names:</b>	Polyoxyethylene glycol (4)	Water
	(min. 99.5% m/m)	(max. 0.5% m/m)
<b>Hazard symbol:</b>	Not applicable	
<b>Index number:</b>	–	
<b>CAS number(s):</b>	112-60-7, 25322-68-3(R)	where (R) – generic
<b>EC Number (EINECS):</b>	203-989-9	
<b>Additional information:</b>	INCI name: PEG-4	
	Chemical group: Polyoxyethylene glycol	

### 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. In case of exposure to heated product fumes, leave the contaminated area immediately; ensure adequate ventilation. In case of shortness of breath or breathing difficulties, seek medical attention.

#### 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 give anything to drink and seek medical attention.

**Additional information**

Toxicological effect/exposure symptoms: causes irritation in case of eye contact.

Notes to physician: Persons who inhaled fumes (e.g. produced during a fire) must remain under medical supervision for at least 24 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 drums exposed to fire or high temperature with water spray. If possible, remove from the hazardous area.

**Special protective equipment for fire-fighters**

No special recommendations.

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

Do not inhale fumes. 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.

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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. 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 (C): not specified.

**Personal protective equipment:****Respiratory protection**

Not required in normal use.

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**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 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>	colourless to light yellow
<b>Odour:</b>	slight
<b>pH:</b>	4.6-7.4 (10% solution at 20°C)
<b>Temperature</b>	
<b>solidification:</b>	below 0°C
<b>boiling:</b>	above 200°C
<b>flash-point:</b>	above 150°C
<b>self-ignition:</b>	no data available
<b>Flammability:</b>	flammable
<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>	approx. 1.125 g/ml at 20°C
<b>Solubility</b>	
<b>in water:</b>	good
<b>in organic solvents:</b>	low aliphatic alcohols, chloroform
<b>Partition coefficient: n-octanol/water:</b>	no data available
<b>Other properties:</b>	hydroxyl value: 530-590 mg KOH/g

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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>	Product reacts with strong oxidizing agents
<b>Hazardous decomposition products</b>	Carbon oxide, organic partial decomposition products

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**11. Toxicological information**

<b>Acute oral toxicity</b>	LD <sub>50</sub> (rat) of 34,000 mg/kg
<b>Inhalation toxicity</b>	No data available
<b>Skin contact</b>	Prolonged skin contact may cause irritation
<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

## 12. Ecological information

<b>Ecotoxicity</b>	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
<b>Persistence and degradability</b>	
Persistence	No data available
Degradability	Polikol 200 does not pose major hazard to the environment and is biologically degradable
<b>Bioaccumulation potential</b>	No data available
<b>Other adverse effects</b>	Adverse effect on the operation of sewage treatment plants has not been observed

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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 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).

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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.

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## 16. Other information

<b>List of R-phrases</b>	None
<b>Training required</b>	Customers applying Polikol 200 should carefully read this Material Safety Data Sheet
<b>Recommended application restrictions</b>	Not known

<b>Further information can be obtained from</b>	Producer
<b>Source of information</b>	Reference data
<b>Modifications in the sheet</b>	Not applicable
<b>Additional information</b>	Information given herein refers solely to the technical product and ceases to be valid after its processing

MSDS version: 1

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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.