

MATERIAL SAFETY DATA SHEET

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Polikol 300

1. Identification of the substance and of the company

Product name

Trade name: Polikol 300

Application

Polikol 300 is used as a softening and antielectrostatic agent in the textile industry.

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:	$C_{12}H_{26}O_7$	
Component names:	Polyoxyethylene glycol (min. 99% m/m)	Water (max. 1% m/m)
Hazard symbol:	Not applicable	
Index number:	-	
CAS number(s):	2615-15-8	
EC Number (EINECS):	220-045-1	
Additional information:	INCI name: PEG-6	

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 all contaminated clothing. After contact with skin, wash with soap and water. Launder clothing before reuse.

Eye contact

Irrigate copiously with fresh water for at least 15 minutes. Consult ophthalmologist.

Ingestion

Do not induce vomiting. Make sure the respiratory system is free. Put the casualty in the recovery position. Seek medical attention.

Additional information

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

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.

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

Flammable product.

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 closed 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 40⁰C. 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 (C): 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

Not required.

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% aqueous solution at 20°C)
Temperature	
solidification:	below 0°C
boiling:	no data available
flash-point:	above 137°C
self-ignition:	no data available
Flammability:	flammable
Explosive properties	
upper and lower explosion limit:	no data available
Oxidizing properties:	not applicable
Vapour pressure:	negligible at room temperature
Relative density:	approx. 1.13 g/ml at 20°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. 80 mPa.s at 25°C hydroxyl value: 360-390 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	Product reacts with strong oxidizing agents
Hazardous decomposition products	Carbon oxide, organic partial decomposition products

11. Toxicological information

Acute oral toxicity	LD ₅₀ (rat) of approx. 39,000 mg/kg, (rabbit) of 21,000 mg/kg, (guinea pig) of 20,000 mg/kg (reference data)
Inhalation toxicity	Hot substance fumes cause irritation of upper respiratory tract
Skin contact	Neither occasional nor repeated skin contact has a toxic or irritating effect

Eye contact	Contact of the pure substance with eyes may cause conjunctiva, eyelid and cornea irritation
Ingestion	Ingestion may cause irritation of the digestive system

12. Ecological information

Ecotoxicity	
Toxicity to aquatic organisms	Aqueous solutions with a concentration of up to 10000 mg/l have no toxic effect on daphnia and plankton, products shows no toxic effect on fish even in concentrations higher than 1000 mg/kg
Mobility	Known or predicted distribution in various ecosystem compartments – hardly volatile product, slightly soluble in water, after dissolving in water may penetrate to groundwater Surface tension of a 10% solution – approx. 64 mN/m
Persistence and degradability	
Persistence	Biodegradable
Degradability	No data available
Bioaccumulation potential	Does not bioaccumulate, potential self-concentration capacity not present
Other adverse effects	Polikol 300 does not inhibit processes of biological decomposition of other substances

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 300 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	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.