

## MATERIAL SAFETY DATA SHEET

Document drafted on: 2005-06-06  
Document up-dated on: 2005-06-06

# Polikol 6000 flakes

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

#### Product name

Trade name: Polikol 6000 flakes

#### Application

Polikol 6000 flakes is used as a plasticizer and antielectrostatic agent in paper, cosmetic, ceramic, metal and household chemicals 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

<b>Chemical name:</b>	Polyoxyethylene glycol	
<b>Molecular formula:</b>	$C_{272}H_{546}O_{136}$	
<b>Component names:</b>	Polyoxyethylene glycol (min. 99.0% m/m)	Water (max. 1.0% m/m)
<b>Hazard symbol:</b>	Not applicable	
<b>Index number:</b>	-	
<b>CAS number(s):</b>	25322-68-3	
<b>EC Number (EINECS):</b>	203-989-9	
<b>Additional information:</b>	INCI name: PEG-136	

### 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 the casualty anything to drink (risk of choking because of product foaming). 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 its flash point, 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 respiratory protective equipment.

### Additional information

Vapour 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, collect into a closed container (non-metal) and recycle or neutralize in accordance with the regulations in force (see sec. 13).

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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 (polyethylene bag) in a roofed area, at a temperature below 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.

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## 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 if vapour is formed – tightly fitting goggles.

#### Hand protection

Required – 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>	solid wax in the form of flakes
<b>Colour:</b>	white to pale yellow
<b>Odour:</b>	weak, characteristic
<b>pH:</b>	4.6-7.4 (10% solution at 20 <sup>0</sup> C)
<b>Temperature</b>	
<b>solidification:</b>	52-58 <sup>0</sup> C
<b>boiling:</b>	above 250 <sup>0</sup> C, simultaneous decomposition
<b>flash-point:</b>	above 250 <sup>0</sup> C
<b>self-ignition:</b>	no data available
<b>Flammability:</b>	slow-burning
<b>Explosive properties</b>	
<b>upper and lower explosion limit:</b>	not applicable
<b>Oxidizing properties:</b>	not applicable
<b>Vapour pressure:</b>	negligible at room temperature
<b>Relative density:</b>	approx. 1.08 g/ml at 70 <sup>0</sup> C
<b>Solubility</b>	
<b>in water:</b>	good
<b>in organic solvents:</b>	methanol, ethanol, ethylene ether
<b>Partition coefficient: n-octanol/water:</b>	no data available
<b>Other properties:</b>	bulk density: approx. 0.5 g/ml at 20 <sup>0</sup> C viscosity: approx. 800 mPa·s at 70 <sup>0</sup> C hydroxyl value: 16-23 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>	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>	Practically non-toxic, LD <sub>50</sub> (rat) of 40,000mg/kg
<b>Inhalation toxicity</b>	Hot substance fumes cause irritation of upper respiratory tract
<b>Acute dermal toxicity</b>	LD <sub>50</sub> (rabbit) of above 20,000mg/kg
<b>Skin contact</b>	Skin contact of the undiluted substance and its concentrated aqueous solutions may cause skin degreasing
<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>	May cause irritation of the digestive tract and choking as a result of foaming

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## 12. Ecological information

<b>Ecotoxicity</b>	No data available
<b>Mobility</b>	Good solubility in water, after dissolving in water may penetrate into groundwater
<b>Persistence and degradability</b>	
Persistence	Biodegradation around 80%, specified in compliance with 82/242/EEC
Degradability	Does not cause biological oxygen deficit
<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 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 Any means of transport, does not require special precautions
<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 6000 flakes should carefully read this Material Safety Data Sheet
<b>Recommended application restrictions</b>	Other usage requires performance of application tests
<b>Further information can be</b>	Producer

**obtained from**

**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

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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.