

## MATERIAL SAFETY DATA SHEET

Document drafted on: 2005-04-27  
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# Rokafenol N10

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

#### Product name

Trade name: Rokafenol N10

#### Application

Rokafenol N10 is used as a component of washing and cleaning agents and as an emulsifier. Rokafenol N10 can be used in oxidizing, reducing and hard water environments. It is active in cold water, in an acid and neutral bath, as well as in diluted alkalis. Rokafenol N10 can be used in a mixture with other non-ionic auxiliary agents and in mixtures with anionic and cationic surface active agents. In a mixture with alkylsulphates alcohols and alkylarylsulphonates has a synergic cleaning and washing effect.

EU regulations limit the application of Rokafenol N10 to industrial cleaning, textile and leather treatment, as well as metal treatment with the use of closed-circuit systems in which the working liquid is recirculated or combusted.

#### 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>	Nonylphenylpolyoxyethylene ether	
<b>Molecular formula:</b>	$C_{35}H_{64}O_{11}$	
<b>Component names:</b>	Nonylphenylpolyoxyethylene ether (10) (min. 99% m/m)	Water (max. 1% m/m)
<b>Hazard symbol:</b>	Xi; R36/38	
<b>Index number:</b>	-	
<b>CAS number(s):</b>	27177-08-8; 9016-45-9	
<b>EC Number (EINECS):</b>	248-294-1; 500-024-5	
<b>Additional information:</b>	INCI name: Nonoxynol-10	

### 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 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 induce vomiting (risk of choking because of substance foaming). Make sure the respiratory system is free. Put the casualty in the recovery position. Seek medical attention.

### **Additional information**

Toxicological effect/exposure symptoms: contact of the liquid with skin causes skin drying out, eye contact causes irritation.

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.

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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 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.

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## **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 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.

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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 °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 (STEL): 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**

Required – 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>	clear or opalescent oily liquid
<b>Colour:</b>	colourless to straw
<b>Odour:</b>	slight
<b>pH:</b>	4.6-7.4 (1% aqueous solution at 20 <sup>0</sup> C)
<b>Temperature</b>	
<b>melting:</b>	approx. 5 <sup>0</sup> C
<b>boiling:</b>	no data available
<b>flash-point:</b>	above 200 <sup>0</sup> 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>	not applicable
<b>Vapour pressure:</b>	negligible at room temperature
<b>Relative density:</b>	approx. 1.06 g/ml at 20 <sup>0</sup> C
<b>Solubility</b>	
<b>in water:</b>	good, through the gelation stage
<b>in organic solvents:</b>	mineral oils, ethyl alcohol, methyl alcohol, other organic solvents
<b>Partition coefficient: n-octanol/water:</b>	no data available
<b>Other properties:</b>	viscosity: 360 hPa at 20 <sup>0</sup> C hydrophilic-lipophilic balance (HLB) approx. 13.3

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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 2,500 mg/kg
<b>Inhalation toxicity</b>	No data available
<b>Skin contact</b>	Prolonged skin contact of undiluted substance and its concentrated aqueous solutions may cause inflammatory reaction

**Eye contact** Contact of undiluted product with eyes causes a chronic conjunctivitis, eyelid swelling and damage, as well as permanent cornea turbidity

**Ingestion** No data available

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## 12. Ecological information

**Ecotoxicity** No data available

**Mobility** Known or predicted distribution to environmental compartments – hard-volatile product, soluble in water (creates emulsions)  
After dissolving in water may penetrate to groundwater  
Surface tension of a 0.1% solution – approx. 30 mPa s

### **Persistence and degradability**

**Persistence** Biodegradation above 83%, specified in compliance with 82/242/EEC

**Degradability** Rokafenol N10 decomposition leads to the formation of nonylphenol which is much less biologically degradable  
Nonylphenol can accumulate in sewage sludge

**Bioaccumulation potential** Nonylphenol formed during the decomposition of Rokafenol N10 may bioaccumulate

**Other adverse effects** Rokafenol N10 may cause foaming in a wastewater treatment plant

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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

**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

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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:

Regulation of the Minister of Economy and Labour on Limitations, Bans or Production Requirements, Turnover or Application of Hazardous Substances and Preparations, as well as Products Containing such Substances or Preparations of 5 July 2004 (*Official Journal Dziennik Ustaw* 2004, No. 168, item 1762), as amended.

**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 Rokafenol N10 should carefully read this Material Safety Data Sheet
<b>Recommended application restrictions</b>	Within the European Union it is forbidden to trade in or use ethoxylated nonylphenol (Rokafenol N10) and preparations that contain it in concentrations higher than or equal 0.1% by weight for: <ol style="list-style-type: none"><li>1) industrial cleansing and cleaning, except for controlled closed dry cleaning equipment, where the cleaning liquid circulates in a closed-loop and afterwards is combusted and laundry devices with special equipment, where the cleaning liquid is recirculated or combusted;</li><li>2) home cleaning;</li><li>3) textile and leather treatment, except for processes that do not generate sewage and processes, where sewage is pre-treated in order to totally remove the organic fraction before the biological treatment (sheep leather degreasing);</li><li>4) emulsifiers in products used for hygienic care of cows' udders;</li><li>5) metal treatment, except for the application in controlled closed systems, where the cleaning liquid is recirculated or combusted;</li><li>6) production of chemical paper-pulp and paper;</li><li>7) cosmetic products;</li><li>8) other personal hygiene products, except for spermicides;</li><li>9) pesticide and biocide components.</li></ol>
<b>Further information can be obtained from</b>	Producer
<b>Source of information</b>	Reference data and European Union Risk Assessment Report 2 <sup>nd</sup> Priority List Volume: 10 – nonylphenol
<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.