

# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 90606	Peroxtesmo KO	Page: 1/7
Printing date: 09.05.2017	Date of issue: 28.02.2017	

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

REF 90606  
 Product name Peroxtesmo KO

REACH Registration number(s): see SECTION 3.1/3.2 or  
 A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

1 x 100 sheets PEROXTESMO KO

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses**  
 Product for analytical use.  
 Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0  
 The exposure scenario is integrated into sections 1-16.

**Uses advised against**  
 not described

### 1.3 Details of the supplier of the safety data sheet

**Manufactured by:**  
 MACHEREY-NAGEL GmbH & Co. KG  
 Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY  
 Tel.: +49 2421 969 0 E-mail: msds@mn-net.com

### 1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.  
 DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet: <http://www.mn-net.com/MSDS>

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

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Directive 1999/45/EC

Symbols

R 45



T

CLP Directive 1272/2008/EC

GHS pictograms



GHS08

Signal word

DANGER

**Hazard identification**

**Hazard classes/categories**

H350

Karz. 1A

### 2.2 Label elements

# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 90606	Peroxtesmo KO	Page: 2/7
Printing date: 09.05.2017	Date of issue: 28.02.2017	

Accordinging **CLP (GHS)** inner packages must be only labelled with symbol(s) and product identifier (EU 1272/2008 Annex I - 1.5.1.2).

## 100 sheets PEROXTESMO KO

Directive 1999/45/EC  
Symbols:



T  
R 45  
May cause cancer.

S 53  
Avoid exposure — obtain special instructions before use.

CLP Directive 1272/2008/EC  
GHS pictograms:



GHS08  
Signal word: DANGER

H350  
May cause cancer.

P201, P280sh, P308+313, P405  
Obtain special instructions before use. Wear protective gloves/eye protection. IF exposed or concerned: Get medical advice/attention. Store locked up.

## 2.3 Other hazards

### Possible Hazards from physicochemical Properties

**Information pertaining to particular Risks to Human and possible Symptoms**  
May cause cancer. May cause cancer if inhaled.

**Information pertaining to particular Risks to the Environment**  
PBT: not applicable  
vPvB: not applicable

**Other Hazards**  
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## SECTION 3: Composition/Information on Ingredients

### 3.1 Substances or 3.2 Mixtures

#### 100 sheets PEROXTESMO KO

Chemical:	<i>o</i> -tolidine hydrochloride	CAS No.:	612-82-8
Concentration:	1 - <2,5 %		
Formula:	C <sub>14</sub> H <sub>18</sub> Cl <sub>2</sub> N <sub>2</sub>		
Pseudonym:	3,3'-dimethylbenzidine dihydrochloride		
EC No.:	210-322-5	Indice No.:	612-081-00-5
RTECS:	DD1226000		MFCD: 00012960
TSCA Inventory:	listed		
acc. 1999/45/EC:	R 45	acc. CLP (GHS):	H350

# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 90606	Peroxtesmo KO	Page: 3/7
Printing date: 09.05.2017	Date of issue: 28.02.2017	

Chemical:	<i>filter paper (cellulose CAS 9004-34-6)</i>	CAS No.:	-
Concentration:	80 - <100 %		
Formula:	(C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) <sub>n</sub>		
REACH Reg. No.:	exempt, Annex IV		
EC No.:	232-674-9		
RTECS:	FJ5691460		
TSCA Inventory:	listed		
KE No.:	KE-05339		
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary

### 3.3 Remarks

List of R, H and P phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

#### 4.1.1 After SKIN Contact

Remove dust with wetted tissue. Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water.

#### 4.1.2 After EYE Contact

Rub dust with teardrops from eyes or: After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

#### 4.1.3 After INHALATION of Vapours

After inhalation of dust fresh air should be inhaled.

#### 4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested.

### 4.2 Most important symptoms and effects, both acute and delayed

Avoid inhalation of dust. Carcinogenic Effects: May cause cancer. May cause cancer if inhaled. ---

### 4.3 Indication of any immediate medical attention and special treatment needed

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

### 5.2 Special hazards arising from the substance or mixture

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### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

### 5.4 Additional Information

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective gloves (see 8.2.2). Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

### 6.2 Environmental precautions

not necessary

### 6.3 Methods and material for containment and cleaning up

And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.

# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 90606	Peroxtesmo KO	Page: 4/7
Printing date: 09.05.2017	Date of issue: 28.02.2017	

## 6.4 Reference to other sections

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

### 7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage. Products containing also toxic substances should be kept locked up.

Storage class (VCI): 6.1B  
 Water hazard class (DE): 2

### 7.2.1 Requirements for Stock Rooms and Containers

Keep original product packages tightly closed during handling and storage, so that they are not immediately accessible to outside parties.

### 7.3 Specific end use(s)

Product for analytical use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 100 sheets PEROXTESMO KO

Chemical: *o*-tolidine hydrochloride CAS No.: 612-82-8  
 TRGS 900 (DE): - (0.003<sub>alt</sub>) ppm / - (0.03 E<sub>alt</sub>) mg/m<sup>3</sup>  
 E/e respirable

Short-term exposure factor: 4  
 skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,003 ppm / 0,03 mg/m<sup>3</sup>

Chemical: *filter paper (cellulose CAS 9004-34-6)* CAS No.: -  
 TRGS 900 (DE): 1.25 A / 4 E mg/m<sup>3</sup>  
 E/e respirable

SUVA(CH) MAK value: 3 a mg/m<sup>3</sup>  
 NIOSH: not listed  
 [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period  
 OSHA: not listed

### 8.2 Exposure controls

The highest level of cleanliness must be maintained at the workplace.

#### 8.2.1 Respiratory Protection

No additional recommendations.

#### 8.2.2 Hand Protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

#### 8.2.3 Eye Protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

#### 8.2.4 Skin Protection

Recommended to avoid contamination with these hazards.

#### 8.2.5 Personal Hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.



# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 90606

Peroxtesmo KO

Page: 5/7

Printing date: 09.05.2017

Date of issue: 28.02.2017

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

100 sheets PEROXTESMO KO

Appearance: solid

Colour: slightly grey

Odor: penetrative

### 9.2 Other information

Relevant Properties of Substance Group

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Not necessary. ---

### 10.5 Incompatible materials

Avoid contact with concentrated acids and oxidizing agents. Avoid contact with strong acids or alkalines.

### 10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Following information is valid for pure substances.

#### 100 sheets PEROXTESMO KO

Chemical: *o-tolidine hydrochloride*

CAS No.: 612-82-8

TSCA Inventory: listed

California Proposition 65 List: listed cancer

Carcinogenic Effects: May cause cancer. May cause cancer if inhaled.

TRGS 905 (DE): K2

Chemical: *filter paper (cellulose CAS 9004-34-6)*

CAS No.: -

TSCA Inventory: listed

California Proposition 65 List: not listed

Australia NICNAS: not listed

Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: not listed

Japan PDSCL: not listed

Japan ISHL: not listed

South Korea TCCA: not listed

Korea Exist.Chem.Inventory: KE-05339

LD50<sub>orl rat</sub>: >5000 mg/kg

LC50<sub>ihl rat</sub>: >5800<sub>4h</sub> mg/m<sup>3</sup>

LD50<sub>drm rbt</sub>: >2000 mg/kg

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 100 sheets PEROXTESMO KO

Chemical: *o-tolidine hydrochloride*

CAS No.: 612-82-8

Water hazard class (DE): 2

Storage class (VCI): 6.1 B

# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 90606

Peroxtesmo KO

Page: 6/7

Printing date: 09.05.2017

Date of issue: 28.02.2017

Chemical: *filter paper (cellulose CAS 9004-34-6)*  
 Water hazard class (DE): nwg  
 Storage class (VCI): 11

CAS No.: -

- 12.2 Persistence and degradability**  
not necessary
- 12.3 Bioaccumulative potential**  
not necessary
- 12.4 Mobility in soil**  
not necessary
- 12.5 Results of PBT and vPvB assessment**  
no data available
- 12.6 Other adverse effects**  
no additional data available

## SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06). Close container tightly.

### 13.1 Waste treatment methods

Dispose of contents/container to regulated waste treatment.

## SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according to the transport regulations

- 14.5 Environmental hazards**  
not necessary
- 14.6 Special precautions for user**  
not necessary
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**  
not applicable

## SECTION 15: Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013  
 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC  
 TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011
- 15.2 Chemical safety assessment**  
not necessary for these small amounts ---

## SECTION 16: Other Information

- 16.1 List of R, H and P phrases**
  - 16.1.1 List of relevant R phrases**  
R45 May cause cancer.
  - 16.1.2 List of relevant H phrases**  
H350 May cause cancer.
  - 16.1.3 List of relevant P phrases**  
P201 Obtain special instructions before use.  
P280sh Wear protective gloves/eye protection.  
P308+313 IF exposed or concerned: Get medical advice/attention.



# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 90606	Peroxtesmo KO	Page: 7/7
Printing date: 09.05.2017	Date of issue: 28.02.2017	

P405 Store locked up.

**16.2 Training Advice**

Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

**16.3 Recommended Restriction on Use**

Only for professional user.  
 Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!  
 Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or DE §§ 4 und 5 MuSchRiv)!  
 An individual package of this product or test kit has a moderate hazardous potential.

**16.4 Further Information**

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.  
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**16.5 Sources of Key Data**

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS  
 Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
 TRGS 900, German engineering rules governing limits in air at work, updated September 2016  
 SUVA .CH, Limits in air at work 2009, revised on 01.2009  
 Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work  
 TRGS 905, German engineering rules governing carcinogens and mutagens, updated March 2016  
 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

**Revisions/Updates**

*Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU*

