

# Material Safety Data Sheet

Filtration · Testing · Chromatography · Bioanalysis  
Filterieren · Testen · Chromatographie · Bioanalytik

according to EC Directive 1907/2006/EC

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

### 1.1 Identification/product name

Lead acetate paper Reagent Reel  
Cat. No. 90744

### 1.2 Use of the substance/preparation

Product for analytical use

### 1.3 Manufacturer

MACHEREY-NAGEL GmbH & Co. KG  
Neumann-Neander-Strasse 6-8, D-52355 Dueren

#### Information from

MACHEREY-NAGEL GmbH & Co. KG  
☎ +49 (0)2421 969 0 e-mail: msds@mn-net.com

### 1.4 Emergency telephone

DE: Gemeinsames Giftinformationszentrum (GGIZ), D-99089 Erfurt, ☎ 0361 730 730

Outside Germany (DE):

Call your regional Poisons Information Service or call local Life Saving Service.

## 2. Hazards identification

### 2.1 Hazard description

Toxic substance/preparation, damage of unborn child possible

Symbol: T

Subsidiary Symbol: R<sub>E</sub> 1, R<sub>F</sub> 3

### Hazard symbols

May cause harm to the unborn child. Harmful if swallowed. Possible risk of impaired fertility.

### 2.2 Information pertaining to particular dangers to human and the environment

Can accumulate within the body. Avoid contact of substance/preparation to environment.

## 3. Composition/Information on ingredients

### Chemical characterisation

Substance: Test paper with lead(II)acetate < 0.9% Pb (C<sub>4</sub>H<sub>6</sub>O<sub>4</sub>Pb•3 H<sub>2</sub>O)

CAS No.: 301-04-2; 6080-56-4 EC No.: 206-104-4

INDEX No.: 082-005-00-8

R reference: 61 S reference: 53-37

## 4. First aid measures

### 4.1 First aid instructions

Ensure quiet, warmth, and provide resuscitation if necessary..

#### Following inhalation of vapours:

Fresh air should be inhaled, keeping the airways clear.

#### After contact with skin:

Rinse the affected skin or mucous membrane thoroughly with water.

#### After contact with the eyes:

Rinse thoroughly for min. 10 minutes under running water with the eyelid wide open. Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Then apply a loose bandage. Further treatment to be carried out by an eye specialist.

#### After oral intake:

Lots of water with activated charcoal supplement should be drunk after it has been ingested and immediately induce vomiting.

### 4.2 Further medical treatment/attention

# Material Safety Data Sheet

Lead acetate paper, Cat. No. 90744  
rev. 2007-03-26



After oral intake ensure the patient drinks a lot of water with medical charcoal or eats medical charcoal pressed tablets. As laxans sodium sulphate (1 spoon on a ¼ litre warm water). Further treatment from a medical doctor. Removes the substance quickly from the body.

## 4.3 Specific means of treatment which should always be available at the workplace

An eye bath or spray should be provided at the workplace.

## 5. Fire-fighting measures

### 5.1 Suitable 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.

### 5.2 Hazards, combustion products/gases

Beware of formation of hazardous and caustic vapours.

### 5.3 Special protective equipment required

Use only acid-resistant safety equipment. Sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

### 5.4 Additional information

The substance itself is not flammable. Product package burns like paper or plastic. Remove any undamaged containers from the danger zone if possible. Spray any vapours released with water. Only use equipment which is resistant to chemicals.

## 6. Accidental release measures

### 6.1 Personal precautions

Do not breathe dust. Wear suitable protective gloves and eye protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

### 6.2 Methods of cleaning-up

Bind any escaping solid wet with tissues and dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.

## 7. Handling and storage

### 7.1 Handling

In accordance with the testing instructions, that comes with the product. The original product package allows a safe handling.

### 7.2 Storage

The original product package of MACHEREY-NAGEL allows a safe storage. Keep packages tightly closed during handling and storage, away or preferably separate from substances with which a hazardous reaction could take place, so that they are not immediately accessible to outside parties. Toxic products should be kept locked up.

Storage class (German chemical industry): 6.1 B

## 8. Exposure controls/personal protection

### 8.1 Exposure limit values

TRGS 900/SUVA.CH: 0.1 E mg/m<sup>3</sup>; TRGS 903: BGW B/a 400/ 300 µg/l Pb; SUVA.CH: BAT B/a 400/ 100 µg/ Pb; TRGS 905/EU: R<sub>E</sub>1, R<sub>F</sub>3, EU: 0.15 mg Pb/m<sup>3</sup>

### 8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

**Respiratory protection:** see 7.2

**Hand protection:** yes, rubber gloves acc. EN 374

**Eye protection:** yes, safety glasses

**Skin protection:** yes, recommended

**Personal hygiene:**

# Material Safety Data Sheet

Lead acetate paper, Cat. No. 90744  
rev. 2007-03-26



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.

## 9. Physical and chemical properties

### 9.1 General information

**Appearance:** solid                      **Colour:**                      **Odour:**

### 9.2 Important health, safety and environmental information

**pH in aqueous solution:** 6  
**Melting point [°C]:** 75  
**Boiling point [°C]:** 280  
**Relative density:** (at 20 °C) - g/cm<sup>3</sup>  
**Solubility in water:** (at 20 °C) 0-30%

## 10. Stability and reactivity

**10.1 Conditions to avoid** not necessary

**10.2 Materials to avoid** not necessary

### 10.1 Hazardous decomposition products

For safety separation the reagents should be stored in the original package. Decompositions are not observed during the expiration period under recommended conditions (see instruction leaflet).

## 11. Toxicological information

### 11.1 Toxicological effects

The acute and chronic effects of toxic substances can differ markedly. They can have a toxic respiratory effect, an irritant effect on the skin and the mucous membranes. May cause harm to the unborn child. Possible risk of impaired fertility.

### 11.2 Toxicological tests

**Corrosive effects:** not observed  
**Irritant effects:** not observed  
**Effects after multiple exposition:** damage of embryo or reproduction possible  
**Carcinogen/mutagen effects:** R<sub>E</sub> 1, R<sub>F</sub> 3  
**Other effects:**

LD<sub>50</sub> oral rat 4665 mg/kg                      LC<sub>50</sub>  
LD<sub>50</sub>    LCLo<sub>oral hmn</sub> 714 mg/kg

Quantitative data on the toxicity of this product are not available.

## 12. Ecological information

### 12.1 Ecotoxicity

The potential effect of a single package on the environment is considerably low. Hazardous to drinking water, if large amounts enter the subsoil and waters.

## 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 disposal (waste code number 16 05 06).

## 14. Transport information

**Proper shipping name:** not restricted  
**UN No.:** -                      **Class:** - **Packaging group:** -  
**Commercial transport-**  
**- road/railway**                      **ADR/RID**                      **Class Code:**  
**Maritime transport:** **IMDG**                      **EmS:**  
**Air transport:** **IATA-DGR**

# Material Safety Data Sheet

Lead acetate paper, Cat. No. 90744  
rev. 2007-03-26



## Other data:

## 15. Regulatory information

### 15.1 Labelling

**Code:** T **Subsidiary Code:**  
**Description:** Toxic  
**Constituents which are crucial to the hazard:** Test paper with lead(II)acetate < 0.9% Pb

## 16. Other information

### R references

R 61 May cause harm to the unborn child

### S references

S 53 Avoid exposure - obtain special instructions before use  
S 37 Wear suitable gloves

### 16.1 International and national regulations

1. European Community Directive 67/548/EEC governing the classification, packaging and labelling of dangerous substances, including Adaptation to Technical Progress (ATP), 2006/121/EC
2. German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on May 2008
3. German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on December 2004, according to Directive 98/24/EC
4. Directive 1998/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
5. Directive 1999/45/EC concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations
6. Directive 2001/58/EC, system of specific information relating to dangerous preparations
7. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
8. Regulation (EC) 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
9. TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated February 2007
10. Announcement 220 (DE), Safety Data Sheet, September 2007
11. TRGS 900, German engineering rules governing limits in air at work, updated January/December 2006
12. SUVA.CH, Limits in air at work 2007, revised on 12.2006
13. TRGS 905, German engineering rules governing carcinogens and mutagens, updated May 2008

### 16.2 Other national regulations

Water hazard class, Germany: 3

**Recommended usage and restriction:** only for trained staff

Look about employ restrictions for young people, pregnant women and nursing women.

An individual package of this product or of this test kit has a minor hazardous potential.

### You find our current versions of MSDS in Internet:

[www.mn-net.com](http://www.mn-net.com) link "Services"

### Bibliographical sources

KÜHN, BIRETT: Merkblätter Gefährliche Arbeitsstoffe B 021  
(Data Sheets of Hazardous Substances)

**Reason for alteration:** General Update including REACH Regulation 1907/2006/EC

### Further information from

Customer Service Center ☎ +49 (0)2421 969 0 📠 +49 (0)2421 969 199

## Material Safety Data Sheet

Lead acetate paper, Cat. No. 90744  
rev. 2007-03-26



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