

# MATERIAL SAFETY DATA SHEET

## MSDS acc. Global Harmonization System

Printing Date: 06.05.2015

Date of Issue: 11.03.2015

Page: 1/6

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product Identifier / Product Name

REF (Product Code) 90746  
Product Name Lead acetate paper (100 strip booklet)  
1 x booklet Lead acetate paper

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

**Relevant identified uses**  
Product for Analytical Use.  
The Exposure scenario is integrated into sections 1-16.  
**Uses advised against**  
not described

#### 1.3 Details of the supplier and 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

For Chemical Emergency  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: **1-800-424-9300**  
Outside USA and Canada: **+1 703-527-3887** (collect calls accepted)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance(s) or mixture(s)

booklet Lead acetate paper

EU Directive 1999/45/EC

Hazard Symbols

R 33-61



T

GHS Directive

Hazard Symbols



GHS08

Signal Word

DANGER

**Hazard Identification**

**Hazard Classes/Categories**

H360Df  
H412

Reproductive Toxicity cat. 1B  
Hazardous to the aquatic environment - chronic cat. 3

#### 2.2 Safety, health and environmental regulations/legislation specific for the substance or mixture

According **GHS** inner packages must be only labelled with symbol(s) and product identifier.

booklet Lead acetate paper

EU Directive 1999/45/EC

# MATERIAL SAFETY DATA SHEET

## MSDS acc. Global Harmonization System

Printing Date: 06.05.2015

Date of Issue: 11.03.2015

Page: 2/6

Hazard Symbols:



T

R 33-61

Danger of cumulative effects. May cause harm to the unborn child.

S 53

Avoid exposure — obtain special instructions before use.

GHS Directive

Hazard Symbols:



GHS08

Signal Word: DANGER

H360Df

May damage the unborn child. Suspected of damaging fertility.

P202, P280sh, P308+313, P405

Do not handle until all safety precautions have been read and understood. 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

Can accumulate within the body.

Information pertaining to particular Risks to the Environment

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Other Hazards

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances or 3.2 Mixtures

booklet Lead acetate paper

Chemical: *lead(II) acetate (trihydrate)*

Weight Percent: 0,47 - 3,9 %

Chemical Formula:  $C_4H_6O_4Pb \cdot 3H_2O$ 

TSCA Inventory: not listed

RTECS: OF8050000

EC No.: 206-104-4

acc. 1999/45/EC: R 33-52/53-61

CAS No.: 6080-56-4

Correlation Factor: x 0,64 (= %Pb)

Indice No.:

082-005-00-8

acc. GHS:

H360Df, H412

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

Weight Percent: 80 - 100 %

Chemical Formula:  $(C_6H_{10}O_5)_n$ 

TSCA Inventory: listed

RTECS: FJ5691460

EC No.: 232-674-9

acc. 1999/45/EC: -

CAS No.: -

acc. GHS:

not necessary

### 3.3 Remarks

List of R and H phrases: see section 16

# MATERIAL SAFETY DATA SHEET

## MSDS acc. Global Harmonization System

Printing Date: 06.05.2015

Date of Issue: 11.03.2015

Page: 3/6

### 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 Vapors

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

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

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishable 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 WATER FOG, WATER SPRAY, alcohol-resistant FOAM, DRY CHEMICAL, CARBON DIOXIDE can be used.

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

#### 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 procedure

Regular staff training is necessary.

#### 6.2 Environmental precautions

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

#### 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.

Storage class: see section 12.1

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

Keep original product packages tightly closed during handling and storage.

# MATERIAL SAFETY DATA SHEET

## MSDS acc. Global Harmonization System

Printing Date: 06.05.2015

Date of Issue: 11.03.2015

Page: 4/6

### 7.3 Specific end use(s)

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### booklet Lead acetate paper

Chemical: *lead(II) acetate (trihydrate)*

CAS No.: 6080-56-4

Canada CEPA 1999: not listed

TSCA Inventory: not listed

California Prop. 65 List: listed cancer

NIOSH: NTP Report on Carcinogens (RoC) List Yes (Lead compound - Reasonably anticipated to be a human carcinogen)

OSHA: not listed

EU carcinogen: R<sub>E</sub> 1, R<sub>F</sub> 3

EU value: 0.15 Pb mg/m<sup>3</sup>

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

CAS No.: -

Canada CEPA 1999: DSL yes

TSCA Inventory: listed

California Prop. 65 List: not listed

NIOSH: not listed

OSHA: not listed

### 8.2 Exposure controls

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

#### 8.2.1 Respiratory Protection

Only if additional recommendations in test instruction or packing insert.

#### 8.2.2 Hand Protection

Yes, gloves (permeation time &gt;30 min - level 2), consist of PVC, Natural latex, Neopren, or Nitril. Use for short times chemical resistant Latex gloves f.ex. with code EN 374-3 level 1.

#### 8.2.3 Eye/face Protection

Yes, Splash Goggles.

#### 8.2.4 Skin Protection

Recommended.

#### 8.2.5 Hygiene measures

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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### booklet Lead acetate paper

Appearance : solid

Color : colorless

Odor : acetic

pH:

5-7

### 9.2 Other information

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#### 9.2.1

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

# MATERIAL SAFETY DATA SHEET

## MSDS acc. Global Harmonization System

Printing Date: 06.05.2015

Date of Issue: 11.03.2015

Page: 5/6

### 10.4 Conditions to avoid

### 10.5 Incompatible materials

Only avoid contact with concentrated acids.

### 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.

#### booklet Lead acetate paper

Chemical: *lead(II) acetate (trihydrate)*  
LD50<sub>orl rat</sub>: 4665 mg/kg  
LC<sub>50</sub><sub>Low orl hmn</sub>: 714 mg/kg

CAS No.: 6080-56-4

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

CAS No.: -

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Following information is valid for pure chemicals.

#### booklet Lead acetate paper

Chemical: *lead(II) acetate (trihydrate)*

CAS No.: 6080-56-4

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

CAS No.: -

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

no 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 (RCRA Code D002/D003, EU waste code number 16 05 06).

### 13.1 Waste treatment methods

## SECTION 14: TRANSPORT INFORMATION

No dangerous goods according the Transport regulations

### 14.5 Environmental hazards

low, small amounts

# MATERIAL SAFETY DATA SHEET

## MSDS acc. Global Harmonization System

Printing Date: 06.05.2015

Date of Issue: 11.03.2015

Page: 6/6

### 14.6 Special precautions for user

not necessary

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### U.S. Federal Regulations

OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"

<https://www.osha.gov/dsg/hazcom/ghs.html>

29 CFR 1910.1200 Hazard communication.

NIOSH Workplace Safety & Health Topics

TSCA Inventory

#### U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

#### Canada

Canada CEPA 1999 - Domestic Substances List (DSL), List of Toxic Substances (Schedule 1)

### 15.2 Chemical safety assessment

---not necessary for these small amounts

## SECTION 16: OTHER INFORMATION

### 16.1 List of R and H Phrases

#### 16.1.1 List of relevant R Phrases

R33

Danger of cumulative effects.

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61

May cause harm to the unborn child.

#### 16.1.2 List of relevant H Phrases

H360Df

May damage the unborn child. Suspected of damaging fertility.

H412

Harmful to aquatic life with long lasting effects.

### 16.2 Training Advice

Multiple safety training of staffs about danger and protection by using hazards in working area.

### 16.3 Recommended Restriction on Use

Only for Professional User.

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

GHS: EU Regulation 1272/2008/EC on Classification, Labelling and Packaging of Substances and Mixtures, amending and repealing

EU Directives 67/548/EEC and 1999/45/EC, and amending EU Regulation 1907/2006/EC

MSDS: EU Regulation 453/2010/EU REACH - Requirements for the Compilation of Safety Data Sheets

KÜHN, BIRETT (German), Data Sheets of Hazardous Substances

You find our current Versions of MSDS in Internet:

<http://www.mn-net.com/MSDS> [U.S. English]