

according to Regulation (EC) No 1907/2006

Lead(II) nitrate, 100 g

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

1.1. Product identifier

Lead(II) nitrate, 100 g

CAS No: 10099-74-8 Index No: 082-001-00-6 EC No: 233-245-9

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

Use of the substance/mixture

Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Seller

Company name: CONATEX-DIDACTIC Lehrmittel GmbH

Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH Street: Im Stadtwald, Gebäude A1.2

Place: D-66123 Saarbrücken

Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232

e-mail: michael.bauer@carbolution-chemicals.de

Internet: www.carbolution-chemicals.de

1.4. Emergency telephone +49 (0)681 302-71232

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: O - Oxidizing, R1 - Repr. Cat. 1, R3 - Repr. Cat. 3, Xn - Harmful, Xi - Irritant, N -

Dangerous for the environment

R phrases:

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

Contact with combustible material may cause fire.

Harmful by inhalation and if swallowed.

Danger of cumulative effects. Risk of serious damage to eyes. Very toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:
Oxidising solid: Ox. Sol. 2
Reproductive toxicity: Repr. 1A
Acute toxicity: Acute Tox. 4
Acute toxicity: Acute Tox. 4

Serious eye damage/eye irritation: Eye Dam. 1

Specific target organ toxicity - repeated exposure: STOT RE 2



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Hazardous to the aquatic environment: Aquatic Acute 1 (M-Factor = 1)
Hazardous to the aquatic environment: Aquatic Chronic 1 (M-Factor = 1)

Hazard Statements: May intensify fire; oxidiser.

May damage the unborn child. Suspected of damaging fertility.

Harmful if swallowed. Harmful if inhaled.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

Lead(II) nitrate

Signal word: Danger

Pictograms: GHS05-GHS07-GHS08-GHS09









Hazard statements

H302+H332 Harmful if swallowed or if inhaled. H318 Causes serious eye damage.

H360Df May damage the unborn child. Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P308+P313 IF exposed or concerned: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: N2O6Pb Molecular weight: 331,21

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
233-245-9	Lead(II) nitrate	100 %
10099-74-8	Repr. Cat. 1, Repr. Cat. 3, O - Oxidizing, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R61-62-08-20/22-33-41-50-53	
082-001-00-6	Ox. Sol. 2, Repr. 1A, Acute Tox. 4, Acute Tox. 4, Eye Dam. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H272 H360Df H302 H332 H318 H373 H400 H410	

Full text of R-, H- and EUH-phrases: see section 16.



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Potential hazards: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid generation of dust. Do not breathe dust.



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Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on storage compatibility

Keep away from combustible material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid Colour: colourless

Odour: No data available

Test method

pH-Value: No data available

Changes in the physical state

Melting point: 470 °C
Initial boiling point and boiling range: No data available
Sublimation point: No data available
Softening point: No data available
Flash point: No data available

Flammability



Solid:

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No data available

No data available Gas: Lower explosion limits: No data available No data available Upper explosion limits: No data available Ignition temperature:

Auto-ignition temperature

Solid: No data available Gas: No data available Vapour pressure: No data available Vapour pressure: No data available Density: 4,53 g/cm³ Water solubility: 500 g/L Partition coefficient: No data available Viscosity / dynamic: No data available No data available Viscosity / kinematic: Flow time: No data available Vapour density: No data available No data available Evaporation rate: Solvent separation test: No data available No data available Solvent content:

9.2. Other information

Solid content: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Risk of explosion by shock, friction, fire or other sources of ignition. Remove all sources of ignition. Keep away from heat. Ignition hazard.

10.5. Incompatible materials

Keep away from combustible material.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Toxic. Acute inhalation toxicity. Acute oral toxicity.



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CAS No	Chemical name					
	Exposure routes	Method	Dose	Species	Source	
10099-74-8	Lead(II) nitrate					
	oral	ATE	500 mg/kg			
	inhalative vapour	ATE	11 mg/l			
	inhalative aerosol	ATE	1,5 mg/l			

Irritation and corrosivity

Causes eye irritation. Risk of serious damage to eyes. Harmful if inhaled. Harmful if swallowed.

Harmful in contact with skin. Frequently or prolonged contact with skin may cause dermal irritation.

Risk of serious damage to eyes.

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

Danger of serious damage to health by prolonged exposure.

Carcinogenic/mutagenic/toxic effects for reproduction

May impair fertility. May damage the unborn child.

Specific effects in experiment on an animal

No data available

Additional information on tests

This mixture is classified as hazardous according to 1999/45/EC. Special hazards arising from the substance or mixture!

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

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

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

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.



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Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE

CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances

Classified as hazardous waste.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN1469

14.2. UN proper shipping name: LEAD NITRATE

14.3. Transport hazard class(es): 5.1

14.4. Packing group:IIHazard label:5.1+6.1Classification code:OT2Limited quantity:1 kg

Transport category: 2
Hazard No: 50
Tunnel restriction code: E

Other applicable information (land transport)

E2

Inland waterways transport (ADN)

14.1. UN number: UN1469

14.2. UN proper shipping name: LEAD NITRATE

14.3. Transport hazard class(es): 5.1
14.4. Packing group:

Hazard label: 5.1+6.1
Classification code: OT2
Special Provisions: 802
Limited quantity: 1 kg

Other applicable information (inland waterways transport)

E2

Marine transport (IMDG)

14.1. UN number: UN1469

14.2. UN proper shipping name: LEAD NITRATE



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14.3. Transport hazard class(es):5.114.4. Packing group:IIHazard label:5.1+6.1Marine pollutant:PSpecial Provisions:-Limited quantity:1 kgEmS:F-A, S-Q

Other applicable information (marine transport)

E2

Air transport (ICAO)

14.1. UN number: UN1469

14.2. UN proper shipping name: LEAD NITRATE

14.3. Transport hazard class(es):5.114.4. Packing group:IIHazard label:5.1+6.1Limited quantity Passenger:1 kg

IATA-packing instructions - Passenger: 558
IATA-max. quantity - Passenger: 5 kg
IATA-packing instructions - Cargo: 562
IATA-max. quantity - Cargo: 25 kg

Other applicable information (air transport)

E2 : Y543

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

SECTION 16: Other information

Relevant R-phrases (Number and full text)

O8 Contact with combustible material may cause fire.

20/22 Harmful by inhalation and if swallowed.

Danger of cumulative effects.
Risk of serious damage to eyes.
Very toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

61 May cause harm to the unborn child. 62 Possible risk of impaired fertility.

Relevant H- and EUH-phrases (Number and full text)

H272 May intensify fire; oxidiser. H302 Harmful if swallowed.

H302+H332 Harmful if swallowed or if inhaled.



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H318	Causes serious eye damage.						
H332	Harmful if inhaled.						
H360Df	May damage the unborn child. Suspected of damaging fertility.						
H373	May cause damage to organs through prolonged or repeated exposure.						
H400	Very toxic to aquatic life.						
H410	Very toxic to aquatic life with long lasting effects.						