

Material Safety Data Sheet

Version:01 Revision Date 7/5/2025

Section 1. Product Information and Company Identification					
Product name	Lead Acetate Trihydrate				
Mol. formula	C4H6O4Pb · 3H2O				
Mol.wt	379,33 g/mol				
Manufacturer name	Pioneers for laboratory chemicals				
Brand name	Piochem				
Address	Area 540, Industrial Zone 6 th October city Giza, Egypt.				
Website	www.piochem.com				
E-mail	info@piochem.com				
Phone number	+201225728304 , +201023932115				

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Reproductive toxicity (Category 1A), H360Df

Specific target organ toxicity - repeated exposure (Category 2), H373

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

R61

R62

Xn Harmful R48/22

R33 R50/53

N Dangerous for the

environment

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

	R/D-SOP-001-F02	Page 1 of 7	Issue Date: 03/11/2024	Effective Date:03/12/2024	Review Date: 03/12/2027	Issue No. 01	
--	-----------------	-------------	------------------------	---------------------------	-------------------------	--------------	--



Signal word

Hazard statement(s)

Danger Auguruseen Hazzar, aquable services and

H360Df H373 H410

May damage the unborn child. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. Very

toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201

P273 Obtain special instructions before use.
P308 + P313 Avoid release to the environment.

P501 IF exposed or concerned: Get medical advice/ attention.

Supplemental Hazard Dispose of contents/ container to an approved waste disposal plant.

Statements none

Restricted to professional users.

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : C4H6O4Pb · 3H2O

Molecular Weight : 379,33 g/mol CAS-No. : 6080-56-4 EC-No. : 206-104-4 Index-No. : 082-005-00-8

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

Lead di(acetate) trihydrate Included in the Candidate List of Substances of Very High Concern (SVHC)

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

CAS-No. 6080-56-4 Repr. 1A; STOT RE 2; Aquatic <= 100 %

EC-No. 206-104-4 Acute 1; Aquatic Chronic 1; Index-No. 082-005-00-8 H360Df, H373, H410

Hazardous ingredients according to Directive 1999/45/EC

Component Classification Concentration

Lead di(acetate) trihydrate Included in the Candidate List of Substances of Very High Concern (SVHC)

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

CAS-No. 6080-56-4 T, N, Repr.Cat.1, Repr.Cat.3, <= 100 %

EC-No. 206-104-4 R61 - R33 - R48/22 - R50/53 -

Index-No. 082-005-00-8 R62

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

R/D-SOP-001-F02	Page 2 of 7	Issue Date: 03/11/2024	Effective Date:03/12/2024	Review Date: 03/12/2027	Issue No. 01
-----------------	-------------	------------------------	---------------------------	-------------------------	--------------



In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Lead oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Light sensitive. Air sensitive.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

R/D-SOP-001-F02	Page 3 of 7	Issue Date: 03/11/2024	Effective Date:03/12/2024	Review Date: 03/12/2027	Issue No. 01	
-----------------	-------------	------------------------	---------------------------	-------------------------	--------------	--



SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

Vapour density

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid Colour: white
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	Melting point/range: 75 °C - dec.
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available

R/D-SOP-001-F02 | Page 4 of 7 | Issue Date: 03/11/2024 | Effective Date: 03/12/2024 | Review Date: 03/12/2027 | Issue No. 01

no data available



m) Relative density 2,550 g/cm3

Water solubility no data available no data available

Partition coefficient: n-

octanol/water

no data available

Auto-ignition temperature

no data available

Decomposition temperature

no data available r) Viscosity **Explosive properties** no data available Oxidizing properties no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong acids, Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 4.665 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

May alter genetic material.

Carcinogenicity

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

IARC: 2A - Group 2A: Probably carcinogenic to humans (Lead di(acetate) trihydrate)

R/D-SOP-001-F02 Page 5 of 7 I	Issue Date: 03/11/2024 Ef	ffective Date:03/12/2024	Review Date: 03/12/2027	Issue No. 01
-----------------------------------	-----------------------------	--------------------------	-------------------------	--------------



Reproductive toxicity

Known human reproductive toxicant

May cause reproductive disorders.

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: OF8050000

Lead salts have been reported to cross the placenta and to induce embryo- and feto- mortality. They also have teratogenic effect in some animal species. No teratogenic effects have been reported with exposure to organometallic lead compounds. Adverse effects of lead on human reproduction, embryonic and fetal development, and postnatal (e.g., mental) development have been reported. Excessive exposure can affect blood, nervous, and digestive systems. The synthesis of hemoglobin is inhibited and results in anemia. If left untreated, neuromuscular dysfunction, possible paralysis, and encephalopathy can result. Additional symptoms of overexposure include: joint and muscle pain, weakness of the extensor muscles (frequently the hand and wrist), headache, dizziness, abdominal pain, diarrhea, constipation, nausea, vomiting, blue line on the gums, insomnia, and metallic taste. High body levels produce increased cerebrospinal pressure, brain damage, and stupor leading to coma and often death., May cause convulsions.

SECTION 12: Ecological information

12.1 Toxicity

no data available

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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Very toxic to aquatic life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.



SECTION 14: Transport information

14.1 UN number

ADR/RID: 1616 IMDG: 1616 IATA: 1616

14.2 UN proper shipping name

ADR/RID: LEAD ACETATE IMDG: LEAD ACETATE IATA: Lead acetate

14.3 Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: no

14.6 Special precautions for user

no data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Authorisations and/or restrictions on use

Lead di(acetate) trihydrate CAS-No.: 6080-56-4

Candidate List of Substances of Very High Concern for Authorisation

Toxic for reproduction (article 57c)

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute Acute aquatic toxicity
Aquatic Chronic Chronic aquatic toxicity

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.

Repr. Reproductive toxicity

Full text of R-phrases referred to under sections 2 and 3

N Dangerous for the environment

T Toxic

R33 Danger of cumulative effects.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R61 May cause harm to the unborn child.
R62 Possible risk of impaired fertility.
Repr.Cat.1 Toxic to Reproduction Category 1
Repr.Cat.3 Toxic to Reproduction Category 3