

Safety Data Sheet

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

Revision Date: 16.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.201041.00000
Product Name Lead (II) Nitrate
Cas no 10099-74-8

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

1.2.1. Relevant identified uses

Use as a laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
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Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Oxidizing solids, Category 2
Acute toxicity, Oral, Category 4
Acute toxicity, By inhalation, Category 4
Serious eye damage, Category 1
Skin sensitizer, Category 1
Reproductive toxicity, Category 1A
Specific Target Organ Toxicity – Repeated exposure, Category 1, Blood, Central nervous system, Immune system, Kidney
Short term (acute) aquatic hazard, Category 1
Long (chronic) aquatic hazard, Category 1

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H272 May intensify fire; oxidizer.
H312 + H332 Harmful in contact with skin or if inhaled.
H317 Causes an allergic skin reaction.
H318 Causes serious eye damage.
H360 May damage fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure. (Blood, Central nervous system, Immune system, Kidney)
H410 Very toxic to aquatic life with long lasting effects.



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Precautionary Statements (SEA)

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

P273 Avoid release to the environment.

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

Intervention

P304+P340 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.

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

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	233-245-9
Molar mass	331.2 g/mol
Cas No	10099-74-8
Concentration	(<= 100 %)

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).

Following inhalation

Remove casualty to fresh air and keep warm and at rest..

Following skin contact

Wash with plenty of water. Take off contaminated clothing.

Following eye contact

In case of contact with eyes, rinse eyelids with water for 10-15 minutes. See a doctor immediately.

Following ingestion

Give up to two glasses of water. Get medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray. Alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NO_x). Lead oxides. It is not flammable. Fire may cause evolution of: nitrogen oxides. Depending on the oxygen output, it has a fire-increasing effect. All-round fire can release dangerous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



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Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area. Avoid generation of dust..

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Pay attention to the precautions on the label. Work with the title. Do not inhale the substance. Avoid the formation of dust.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places. Do not store near flammable materials.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Lead(II)-nitrate (10099-74-8)

EN OEL 8-hour fixed
for reference time
measured or
calculated time
weighted average
(TWA): 0,15 mg/m³

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment

Eye/face protection

Fully fitting safety glasses

Hand protection



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Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Protective chlothing.

Respiratory protection

Required when dusts occur.

Recommended Filter type: P 3 Filter (according to DIN 3181) for solid and liquid particles of toxic and highly toxic elements.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Colorless
Odour	Odorless
Odour threshold	Not applicable.
pH value	3 - 4 50 g/l 20 °C
Melting point/freezing point	458 - 459 °C
Freezing point	No information.
Initial boiling point and boiling range	> 500 °C 1.013 hPa
Flash point	It doesn't shine.
Evaporation rate	No information.
Flammability (solid, gas)	400 °C
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	< 0.1 hPa 20 °C
Vapour density	Not applicable.
Density	4.50 g/cm3 20 °C
Relative density	Not applicable.
Water solubility (g/l)	480 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	No information.
Decomposition temperature	No information.

Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability



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The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

There is a risk of explosion with organic combustible materials, ammonium compounds, acetates, alcohols, esters.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Acute toxicity estimate: 500.1 mg/kg
(Expert decision)

Acute inhalation toxicity

Acute toxicity estimate: 1.6 mg/l; dust/mist
(Expert decision)

Symptoms: Possible damages: mucosal irritations

LD50 Dermal - Rat - male and female - > 2.000 mg/kg
(OECD Testing Guide 402)

Eye irritation

In vitro study

Result: Severe irritations

OECD Test Guideline 437

Causes serious eye damage.

CMR effects

Teratogenicity (possibility to cause developmental disabilities):

It can harm the unborn baby. Positive finding in epidemiological studies in humans.

Reproductive toxicity:

May harm fertility. Positive finding in epidemiological studies in humans.

Specific Target Organ Toxicity - Repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Target Organs: Blood, Central nervous system, Immune system, Kidney

11.2 Additional information

After the secrecy period:

Mouth watering, drooling, vomiting, drop in blood pressure.

It can have a lethal effect after ingestion in large quantities.

It covers lead compounds in general: Due to poor absorption through the gastrointestinal tract, only very high doses cause intoxication in acute situations.

A few hours of concealment, metallic taste, nausea, vomiting, and colic occur, in many instances followed by shock.

Women of childbearing age should not be in contact with the substance for long periods of time.

SECTION 12: Ecological information

12.1 Toxicity



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Toxicity to fish
static test LC50 - Oncorhynchus mykiss (Rainbow trout) - 0.1 mg/l - 96 h
Notes: (ECHA)

Toxicity to daphnia and other aquatic invertebrates
EC50 Daphnia magna (Water flea): 1.8 mg/l; 48 hours
(ECOTOX Database)

Toxicity to algae (algae)
EC50 algae: 0.024 - 0.029 mg/l; 28 h
(Source)

12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Depending on the concentration, phosphorus or nitrogen compounds cause eutrophication of drinking water supplies. Discharge into the environment should be prevented.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 1469	UN 1469	UN 1469	UN 1469	UN 1469
14.2 UN proper shipping name LEAD NITRATE 5.1 (6.1), II, Marine Pollutant: P, Segregation Group: 7 (Heavy metals and their salts (including their organometallic compounds)) ⁹ (Lead and its compounds)	LEAD NITRATE 5.1 (6.1), II, Marine Pollutant: P, Segregation Group: 7 (Heavy metals and their salts (including their organometallic compounds)) ⁹ (Lead and its compounds)	LEAD NITRATE 5.1 (6.1), II, Marine Pollutant: P, Segregation Group: 7 (Heavy metals and their salts (including their organometallic compounds)) ⁹ (Lead and its compounds)	LEAD NITRATE 5.1 (6.1), II, Marine Pollutant: P, Segregation Group: 7 (Heavy metals and their salts (including their organometallic compounds)) ⁹ (Lead and its compounds)	LEAD NITRATE 5.1 (6.1), II, Marine Pollutant: P, Segregation Group: 7 (Heavy metals and their salts (including their organometallic compounds)) ⁹ (Lead and its compounds)

14.3 Transport hazard class(es)

5.1(6.1)

5.1(6.1)

5.1(6.1)

5.1(6.1)

5.1(6.1)



14.4 Packing group

II

II

II

II

II

14.5 Environmental hazards



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YES

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YES

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No information available.

No information available.

No information available.

No information available.

No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

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

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

H272 May intensify fire; oxidizer.

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H317 Causes an allergic skin reaction.

H318 Causes serious eye damage.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure. (Blood, Central nervous system, Immune system, Kidney)

H410 Very toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

Name:

Certificate Number and Date:

Communication information:


Erhan DİLER

11.29.03 & 11 Şubat 2020

05069903686



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