

Safety Data Sheet

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

Revision Date: 17.08.2022 Version 2



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

1.1 Product identifier

Catalog No. TK.201044.00000
Product Name Lead (II) Oxide
Cas no 1317-36-8

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

1.2.1. Relevant identified uses

Industrial use. 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.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
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)

Acute toxicity, Oral, Category 4
Acute toxicity, By inhalation, Category 4
Carcinogenicity, Category 2
Reproductive toxicity, Category 1A
Effects on or through breast milk
Specific Target Organ Toxicity – Repeated exposure, Category 1, Central nervous system, Kidney, Blood
Specific Target Organ Toxicity – Repeated exposure, Oral, Category 1, Central nervous system, Kidney, Blood
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)

H312 + H332 Harmful in contact with skin or if inhaled.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H362 May harm a breastfed child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)



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Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P263 Avoid contact during pregnancy/while breastfeeding.

P273 Avoid release to the environment.

Intervention

P301+P312 IF SWALLOWED: Call 114 POISON CENTER or doctor/physician if you feel unwell.

P304+P340+P310 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing. Immediately call the NATIONAL POISON ADVICE CENTER or doctor/physician.

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	215-267-0
Molar mass	223.19 g/mol
Cas No	1317-36-8
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

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Lead oxides. It is not flammable. 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

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..



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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.

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) oxide (1317-36-8)

EN MAK Acceptable maximum concentration (MAK) 0,2 mg/m3

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

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 harmful elements.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Light yellow
Odour	Odorless
Odour threshold	Not applicable.
pH value	8 - 9 100 g/l 20 °C
Melting point/freezing point	890 °C
Freezing point	No information.
Initial boiling point and boiling range	1,470 °C
Flash point	Not applicable.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	No information.
Vapour density	No information.
Density	9.53 g/cm3 20 °C
Relative density	No information.
Water solubility (g/l)	0.072 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	Upgrade potential

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.



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10.3 Possibility of hazardous reactions

There is a risk of explosion with aluminium, powdered metals, performic acid, perchloric acid, glycerol. Violent reactions possible with carbides, sulfur oxides, hydrogen peroxide, halogens, alkenes.

There is a risk of explosion or formation of flammable gases or vapors with boron, alkali metals, hydrides, silanes, vegetable/animal oils, fluorine.

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: 1,100.1 mg/kg

Expert judgment

Acute inhalation toxicity

Acute toxicity estimate: 1.6 mg/l; dust/mist

Expert judgment

Acute dermal toxicity

LD50 Rat: > 2.000 mg/kg

OECD Test Guideline 402

CMR effects

Carcinogenicity:

It is suspected of causing cancer.

Teratogenicity (possibility to cause developmental disabilities):

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

Reproductive toxicity:

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

Effects on or through breast milk

Specific Target Organ Toxicity - Repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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

11.2 Additional information

Lead has been reported to have adverse effects on human reproduction, embryonic and fetal development, and postnatal development (eg mental development).

Excessive exposure may affect the blood, nervous and digestive systems. Joint and muscle pain, weakness in the opening muscles (often in the hand and wrist), headache, dizziness, abdominal pain, diarrhea, constipation, nausea, vomiting, bruising on the gums, insomnia can be seen.

High levels in the body cause increased cerebrospinal pressure, brain damage, coma, and fainting, which often results in death.

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 (ECHA)

Toxicity to daphnia and other aquatic invertebrates
EC50 Daphnia magna (Water flea): 0.13 mg/l; 48 hours (ECOTOX Database)

Toxicity to algae (algae)
static test EC10 - Skeletonema costatum - 0.0294 mg/l - 96 h (ECHA)

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

Discharge into environment must be avoided.

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 3077	UN 3077	UN 3077	UN 3077	UN 3077
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Contains: Lead (II) Oxide), MARINE POLLUTANT,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Contains: Lead (II) Oxide), MARINE POLLUTANT,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Contains: Lead (II) Oxide), MARINE POLLUTANT,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Contains: Lead (II) Oxide), MARINE POLLUTANT,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Contains: Lead (II) Oxide), MARINE POLLUTANT,

14.3 Transport hazard class(es)

9 9 9 9 9



14.4 Packing group

III III III III III

14.5 Environmental hazards



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YES YES YES YES YES

Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

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14.6 Special Precautions for User:

Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

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

H312 + H332 Harmful in contact with skin or if inhaled.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H362 May harm a breastfed child.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

Name:

Erhan DİLER

Certificate Number and Date:

11.29.03 & 11 Şubat 2020

Communication information:

05069903686



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