WF Education Group - Safety Data Sheet

LE3430

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.1 Revision date: 16 April 2021

Date printed: 07 June 2021

Section 1. Identification

1.1 Product Identifier LE3436

Product Name LEAD (II) NITRATE pure 500g.

CAS Number 10099-74-8

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula

Pb(NO,) = 331.21

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier WF Education Group



Phoenix House

Battlefield Enterprise Park

Stafford Drive Shrewsbury Shropshire SY1 3FE

UNITED KINGDOM

Phone +44(0)1743 812200
Email sales@wf-education.com
Website www.timstar.co.uk

1.4 Emergency Telephone (08:30-17:00) +44(0)1743 812200

(24hr) 112 (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 4 (oral)
Acute toxicity, category 4 (inhalation)

Serious eye damage/irritation, category 1

Skin sensitization, category 1 Carcinogenicity, category 2

Reproductive toxicity, category 1A

Spec target organ tox - repeat, category 1

Hazard to aquatic environment, category 1

Hazard to aquatic environment, category 1

H332: Harmful if inhaled.

H302: Harmful if swallowed.

H318: Causes serious eye damage. H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer.

H360: May damage fertility or the unborn child.

H372: Causes damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms









Hazard Statements Harmful if swallowed. Harmful if inhaled. Causes serious eye damage. May cause an allergic skin reaction. May

damage fertility or the unborn child. Suspected of causing cancer. Causes damage to organs through prolonged or

repeated exposure. Very toxic to aquatic life with long lasting effects.

drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you

feel unwell. Rinse mouth.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Lead Nitrate	10099-74- 8	233-245-9		99%	Acute Tox. 4 (O), Acute Tox. 4 (I), Eye Dam. 1, Skin Sens. 1, Carc. 2, Repr. 1A, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure. If material has reacted with an acid to form, nitrous fumes, Obtain immediate medical

attention even if patient is not complaining of discomfort.

Ingestion If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if

available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL

ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Water spray.
Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with

finely divided combustible materials can react explosively.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus.

Only re-enter area with full protective clothing and breathing apparatus.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term	Long Term (8hr TWA)		5min period)
Lead Nitrate	10099-74-8	99%	-	-	-	-

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance White translucent crystals.

No specific odour. Odour 4.3 @ 20°C pH **Boiling Point** Not available Melting Point 458 °C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable

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Explosive Properties No. Oxidising Properties Yes.

Not applicable Vapour Pressure

Relative Density 4.490

Water Solubility 486 g/L @ 20 °C

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Avoid contact with acids or combustible materials.

10.5 Incompatable Materials Acids: reacts to form poisonous nitrous fumes. Combustible materials.

Hazardous Decomposition Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin Unlikely to be an irritant on brief or occasional exposure. May cause sensitisation by skin contact.

LD50 Skin >2000 mg/Kg Rat

Ingestion Moderately toxic by ingestion.

LD50 Oral >2000 mg/Kg Rat

Inhalation of the dust may cause ultra structural changes to the lungs and effect the central nervous system. Inhalation

LD50 Inhalation Not available **TCLo** Not available

Carcinogenicity Suspected of causing cancer. Route of exposure: Oral

Mutagenicity Significant increases in chromosome aberrations have been reported. Reproductive Effects May damage fertility or the unborn child. Route of exposure: Dermal

Other Information Chronic lead poisoning may occur from dust inhalation. Anaemia and other blood effects are the most common.

Early symptoms of poisoning include fatigue, headache, sleep disturbances, aching bones and muscles, gastrointestinal disturbances and reduced appetite. Large doses affect the central nervous system causing severe

headaches, convulsions, coma, kidney damage and death.

Section 12. Ecological

12.1 Toxicity Lead salts are harmful to the environment.

21.7 µg/L Green algae (48 hours) LC50 Algal LC50 Crustacea 107 µg/L Daphnia magna (48 hours) 40.8 µg/L Fathead Minnow (96 hours) LC50 Fish

12.2 Persistence and

degradability

No data available.

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Dispose of to a licensed land fill site. Disposal Methods Contaminated Packaging Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 1469 14.2 Proper Shipping Name Lead nitrate

14.3 Transport classes

UN classification 5.1 Subsidiary hazard(s) 6.1 Transport category 2 ADR Hazard ID 56 **Tunnel Restriction Code** E 14.4 Packing Group

14.5 Environment hazards Marine pollutant.

14.6 Special precautions for No special precautions required.

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 4 (oral); Acute toxicity, category 4 (inhalation); Serious eye damage/irritation, category 1;

Skin sensitization, category 1; Carcinogenicity, category 2; Reproductive toxicity, category 1A; Spec target organ tox

- repeat, category 1; Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms









Hazard Statements H302, H332, H318, H317, H360, H351, H372, H410

> Harmful if swallowed. Harmful if inhaled. Causes serious eye damage. May cause an allergic skin reaction. May damage fertility or the unborn child. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Precautionary Statements P281, P260, P264, P270, P301+P312, P330

> Use personal protective equipment as required. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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