SAFETY DATA SHEET
Lead Nitrate

Version 2 · issued 27 October 2026

1. IDENTIFICATION

Product Identifiers

Product Name	Lead Nitrate
Other Names	Lead(II) nitrate, Plumbous nitrate, Lead dinitrate, Nitric acid, lead(2+) salt
Product Number(s)	17900, C151
CAS Number	10099-74-8

Recommended use of the chemical and restriction on use
Manufacturing: Used in producing other lead compounds.
Pyrotechnics: Used as an oxidising agent in some fireworks and special effects.
Chemical laboratories: Used as a reagent in chemical analysis and research.
Industrial applications: Used in certain specialised processes, including some pigment and coating manufacturing.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
GHS08 Health hazard
Carcinogenicity 1B H350 May cause cancer.
Reproductive toxicity 1A H360 May damage fertility or the unborn child.
Specific target organ toxicity (repeated exposure) 2 H373 May cause damage to organs through prolonged or repeated exposure.
GHS09 Environment
very toxic to aquatic life with long-lasting effects (H410)
GHS07
Acute toxicity - oral 4 H302 Harmful if swallowed.
Acute toxicity - inhalation 4 H332 Harmful if inhaled.

Label Elements
Harmful / irritant • Health hazard • Hazardous to the environment

Signal Words	Danger
Hazard Statement(s)	Harmful if swallowed or if inhaled. May cause cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Primary route(s) of entry

Contains lead. Should not be used on surfaces liable to be chewed or sucked by children. Inhalation of airborne dust and ingestion from contaminated hands are important exposure routes when handling lead nitrate.

Human Health

Inhalation — Remove person to fresh air and keep comfortable for breathing.

Ingestion — Call a poison center/doctor if you feel unwell.
Rinse mouth.

Eyes — Not available.

Skin — Not available.

Environment

No further relevant information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
Lead Nitrate	10099-74-8	-	-

4. FIRST AID MEASURES

Ingestion — Call for a doctor immediately.

Inhalation — Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.

Skin Contact — Generally the product does not irritate the skin.

Eye Contact — Rinse opened eye for several minutes under running water.

Other Information — Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours 0after the accident.

5. FIREFIGHTING MEASURES

Suitable extinguishing equipment

Fire — CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Large Fire — CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

HAZCHEM — Not available.

Special protective equipment and precautions for fire fighters

Mouth respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures — No further relevant information available.

Environmental precautions	Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Protective Action Criteria for Chemicals · PAC-1: 0.24 mg/m³ · PAC-2: 180 mg/m³ · PAC-3: 1,100 mg/m³
Methods and materials for containment and clean up	Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Precautions for safe handling	Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Keep respiratory protective device available.
Conditions for safe storage	Storage: · Requirements to be met by storerooms and receptacles: No special requirements. · Information about storage in one common storage facility: Not required. · Further information about storage conditions: Keep receptacle tightly sealed. · Specific end use(s) No further relevant information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Engineering controls	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately.

Personal protective equipment

Eye and face protection	Not required.
Skin protection	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Body protection	Protective clothing recommended
Respiratory protection	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance	Crystalline Colourless
Odour	Odourless
pH	4 at 20 °C:
Vapour Pressure	Not applicable.
Density	4.535 g/cm³ at 20 °C
Boiling Point	Not available.
Melting Point	470 °C
Solubility	525 g/l at 20 °C
Specific Gravity of Density	Not available.
Flash Point	Not applicable
Flammable (Explosive) Limits	Product does not present an explosion hazard.
Ignition Temperature	Product is not flammable.

Formula	Pb(NO3)2

10. STABILITY AND REACTIVITY

Reactivity	No further relevant information available.
Chemical stability	No further relevant information available.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.

11. TOXICOLOGICAL INFORMATION

Acute effects	No further relevant information available.
Eye contact	No irritant effect.
Skin contact	No irritant effect.
Ingestion	No further relevant information available.
Inhalation	No further relevant information available.
Chronic effects	Carcinogenic categories · IARC (International Agency for Research on Cancer): 2A · NTP (National Toxicology Program): R · OSHA-Ca (Occupational Safety Health Administration): Substance is not listed.
Toxicity and irritation	Repr. 1A

12. ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic for fish.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Other adverse effects	Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

13. DISPOSAL CONSIDERATIONS

General information
Recommendation:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
· Uncleaned packagings:
· Recommendation: Disposal must be made according to official regulations.
· Recommended cleansing agent: Water, if necessary with cleansing agents.

14. TRANSPORT INFORMATION

ADG label required
Marine pollutant • Class 5.1 Oxidising agent • Class 6.1 Toxic

HAZCHEM	Not available.
UN Number	UN1469
Proper shipping name	· DOT: Lead nitrate · ADR: 1469 LEAD NITRATE, ENVIRONMENTALLY HAZARDOUS · IMDG: LEAD NITRATE, MARINE POLLUTANT · IATA: LEAD NITRATE
Transport hazard class	· Class 5.1 Oxidizing substances · Label 5.1, 6.1
Packing group	PG II
Environmental hazard	Marine pollutant: Yes (DOT) Symbol (fish and tree):· Special marking (ADR): Symbol (fish and tree).
Special precautions for users	Warning: Oxidising substances.

Additional information

Danger code (Kemler): 56
EMS Number: F-A,S-Q
Segregation groups Heavy metals and their salts (including their organometallic compounds), lead and its compounds
ADR
Limited quantities (LQ) 1 kg
Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 500 g
Transport category 2
Tunnel restriction code E

15. REGULATORY INFORMATION

Poisons Schedule Number

Sara
· Section 355 (extremely hazardous substances): Substance is not listed.
· Section 313 (Specific toxic chemical listings): Substance is listed.
· TSCA (Toxic Substances Control Act): ACTIVE
· Hazardous Air Pollutants
Substance is listed.
· Proposition 65
· Chemicals known to cause cancer: Substance is listed.
· Chemicals known to cause reproductive toxicity for females: Substance is not listed.
· Chemicals known to cause reproductive toxicity for males: Substance is not listed.
· Chemicals known to cause developmental toxicity: Substance is not listed.
· Carcinogenic categories
· EPA (Environmental Protection Agency): B2
· TLV (Threshold Limit Value): A3
· NIOSH-Ca (National Institute for Occupational Safety and Health): Substance is not listed.

Other Information

Substances of very high concern (SVHC) accord

16. OTHER INFORMATION

SDS preparation date

27 October 2026

Comments

Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Acute toxicity - oral 4: Acute toxicity – Category 4
Carcinogenicity 1B: Carcinogenicity – Category 1B
Reproductive toxicity 1A: Reproductive toxicity – Category 1A
Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) – Category 2

References

Electron Microscopy Science SDS "Lead Nitrate" 10/05/2022
https://www.emsdiasum.com/docs/technical/msds/17900.pdf

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of

Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

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