

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name	Lead Nitrate
Product name	Lead Nitrate

CAS number 10099-74-8

Synonyms Lead(II) Nitrate, Lead Dinitrate

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

Identified uses Laboratory Chemicals.

1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing liquids (Category 2) Acute oral toxicity (Category 4) Acute inhalation toxicity - dusts and mists (Category 4) Serious eye damage/eye irritation (Category 1) Skin Sensitization (Category 1B) Carcinogenicity (Category 1B) Reproductive Toxicity (Category 1A) Specific target organ toxicity - repeated exposure (Category 1) Target Organs - Kidney, Liver, Blood

2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Danger
Hazard statements	May intensify fire; oxidizer May cause an allergic skin reaction
Precautionary statements	Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing should not be allowed out of the workplace Wear protective gloves Do not breathe dust/fume/gas/mist/vapors/spray Keep away from heat/sparks/open flames/hot surfaces No smoking Keep/Store away from clothing/ other combustible materials Take any precaution to avoid mixing with combustibles IF exposed or concerned: Get medical attention/advice IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth In case of fire: Use CO2, dry chemical, or foam for extinction Store locked up Dispose of contents/container to an approved waste disposal plant

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	H2O	7732-18-5	89.5-90.5%

Lead(II) Nitrate	ad Nitrate, Lead Dinitrate	10099-74-8	9.5-10.5%
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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice	
lf inhaled	Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	Do NOT induce vomiting. Call a physician or poison control center immediately.

- **4.2 Most important symptoms and effects, both acute and delayed** Causes severe eye damage. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.
- **4.3 Indication of any immediate medical attention and special treatment needed** Note to Physician: Treat symptomatically.

SECTION 5: Firefighting measures

5.1	Extinguishing media		
	Suitable extinguishing media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.	
	Unsuitable extinguishing media	No information available.	

5.2 Specific hazards arising from the substance or mixture

Oxidizer: Contact with combustible/organic material may cause fire. Thermal decomposition can lead to release of irritating gases and vapors. May ignite combustibles (wood paper, oil, clothing, etc.). Do not allow run-off from fire-fighting to enter drains or water courses.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

5.4 Further information

Flash Point	No information available.			
Autoignition Temperature	ture No information available.			
Explosion limits				
Upper	Upper No information available.			
Lower	Lower No information available.			
Sensitivity to Mechanical Impact No information ava		No information available.		
Sensitivity to Static Discharge		ge	No information available.	
NFPA				
Health	Flammability	Instability	Physical hazards	
2	0	2	OX	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance. Keep away from clothing and other combustible materials.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials.

Incompatibilities

Strong reducing agents. Organic materials. Finely powdered metals. Combustible material.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value
Lead(II) Nitrate	No information available.	No information available.

US. ACGIH Threshold Limit Values

Component	Туре	Value
Lead(II) Nitrate	TWA	0.05 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Туре	Value
Lead(II) Nitrate	IDLH	100 mg/m3
	TWA	0.050 mg/m3

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection

Wear appropriate protective gloves.

Body Protection

Wear appropriate clothing to prevent skin exposure.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particulates filter conforming to EN 143.

Control of environmental exposure

Do not let product enter the drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

AppearanceColorlessOdorOdorlessOdor ThresholdNo information available.pHNo information available.Melting Point/RangeNo information available.	Physical State	Liquid
Odor ThresholdNo information available.pHNo information available.	Appearance	Colorless
pH No information available.	Odor	Odorless
P · · · · · · · · · · · · · · · · · · ·	Odor Threshold	No information available.
Melting Point/Range No information available	рН	No information available.
	Melting Point/Range	No information available.
Boiling Point/Range No information available.	Boiling Point/Range	No information available.
Evaporation Rate No information available.	Evaporation Rate	No information available.
Flammability (solid) Not applicable.	Flammability (solid)	Not applicable.
Flammability or explosive limit	Flammability or explosive limit	
Upper No information available.	Upper	No information available.
Lower No information available.	Lower	No information available.
Vapor Pressure No information available.	Vapor Pressure	No information available.
Vapor Density No information available.	Vapor Density	No information available.
Density No information available.	Density	No information available.
Solubility Soluble in water.	Solubility	Soluble in water.
Partition coefficient; n-octanol/water No information available.	Partition coefficient; n-octanol/water	No information available.
Autoignition Temp No information available.	Autoignition Temp	No information available.
Decomposition Temp No information available.	Decomposition Temp	No information available.
Viscosity No information available.	Viscosity	No information available.
Molecular Formula Pb(NO3)2	Molecular Formula	Pb(NO3)2
Molecular Weight 331.2	Molecular Weight	331.2
VOC Content(%) No information available.	VOC Content(%)	No information available.
Oxidizing properties No information available.	Oxidizing properties	No information available.

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactive.

10.2 Chemical stability Oxidizer: Contact with combustible/organic material may cause fire.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Combustible material.

10.5 Incompatible materials

Strong reducing agents, organic materials, finely powdered metals, combustible material.

10.6 Hazardous decomposition products

Nitrogen oxides (NOx), lead oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	nponent LD50 Oral LD50 Dermal		LC50 Inhalation	
Lead(II) Nitrate	93 mg/kg (rat)	Not listed.	Not listed.	

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

Risk of serious damage to eyes.

Respiratory or skin sensitization

May cause sensitization by skin contact.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Lead(II) Nitrate	10099-74-8	Group 2A	Reasonably	A3	Listed	Not listed

Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure

Kidney, Liver, Blood.

Reproductive toxicity

Experiments have shown reproductive toxicity effects on laboratory animals.

Chronic effects

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results	
	LC50	Oncorhynchus mykiss	1.5 mg/L	96 h
Lead(II) Nitrate	LC50	Cyprinus carpio	0.4 - 1.3 mg/L	96 h
	EC50	Daphnia magna	0.5 - 2 mg/L	48 h

12.2 Persistence and degradability

May persist based on information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)	
UN-no	UN1469
Proper Shipping Name	Lead Nitrate
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing Group	II
IMDG	
UN-no	UN1469
Proper Shipping Name	Lead Nitrate
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing Group	II
ΙΑΤΑ	

UN-no	UN1469
Proper Shipping Name	Lead Nitrate
Hazard Class	5.1
Subsidiary Hazard Class	6.1
Packing Group	II

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

> TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4) Listed. Component: Lead(II) Nitrate; RQ: 10 lb

SARA 304 Emergency release notification

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Listed.

SARA 313 (TRI reporting)

Regulated. Component: Lead(II) Nitrate; Weight: > 95%; Threshold Value: > 0%; Reporting Threasholds: 100 lb

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Regulated.

Safe Drinking Water Act

Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

Listed.

US. New Jersey Worker and Community Right-to-Know Act Listed.

US. Pennsylvania Worker and Community Right-to-Know Law Listed.

California Proposition 65

Listed.

SECTION 16: Other information

Issue date: 09/16/2024

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.