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SAFETY DATA SHEET

Creation Date 07-Jul-2009	Revision Date 16-Jan-2022	Revision Number 1
	1. Identification	
Product Name	Lead(II) nitrate	
Cat No. :	C4790, C4800	
Synonyms	Nitric acid, lead(2+) salt; Plumbous nitrate.; Lead dinitrate	
Recommended Use	Laboratory chemicals.	
Uses advised against No Information available Details of the supplier of the safety data sheet		
Company Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel.: 512-668-9918	Emergency Telephone Number InfoTrac: 800-535-5053	

2. Hazard(s) identification

Classification

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This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids	Category 3
Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Serious Eye Damage/Eye Irritation	Category 1
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Kidney, Liver, Blood.	

Label Elements

Signal Word Danger

Hazard Statements May intensify fire; oxidizer Harmful if swallowed Causes serious eye damage Harmful if inhaled May cause drowsiness or dizziness May cause cancer May damage the unborn child. Suspected of damaging fertility May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention

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

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

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Eyes

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

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Lead(II) nitrate	10099-74-8	>95

4. First-aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms/effects Notes to Physician	Causes eye burns. Treat symptomatically

5. Fire-fighting measures		
Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.	
Unsuitable Extinguishing Media	No information available	
Flash Point Method -	Not applicable No information available	
Autoignition Temperature Explosion Limits	Not applicable	
Upper	No data available	
Lower	No data available	
Oxidizing Properties	Oxidizer	

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

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.

Hazardous Combustion Products

Nitrogen oxides (NOx) lead oxides

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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.

<u>NFPA</u> Health 2	Flammability 0	Instability 2	Physical hazards OX
	6. Accidental rel	ease measures	
Personal Precautions		k. Ensure adequate ventilation	to safe areas. Keep people away n. Do not get in eyes, on skin, or
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. See Section 12 for additional ecological Information. Avoid release to the environment. Collect spillage.		
Methods for Containment and C Up	material. Sweep up or vacu		suitable container for disposal.

containers for disposal. Sweep up and shovel into suitable containers for disposal.

7. Handling and storage

Handling	Use only under a chemical fume hood. Wear personal protective equipment. Keep away from clothing and other combustible materials. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe dust.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lead(II) nitrate	TWA: 0.05 mg/m ³		IDLH: 100 mg/m ³
			TWA: 0.050 mg/m ³
Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Lead(II) nitrate 10099-74-8 (>95)	TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³	TWA: 0.05 mg/m ³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	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 and body protection	Wear appropriate protective gloves and 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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

	9. Physical and chemical properties
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	3 - 4 20% aq. sol
Melting Point/Range	470 °C / 878 °F
Boiling Point/Range	No information available
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	negligible
Vapor Density	Not applicable
Relative Density	4.530
Solubility	Soluble in water
Partition coefficient; n-octanol/wa	ter No data available
Autoignition Temperature	Not applicable

Decomposition temperature
Viscosity
Molecular Formula
Molecular Weight

No information available Not applicable N2 O6 Pb 331.2

10. Stability and reactivity

Reactive Hazard	Yes	
Stability	Oxidizer: Contact with combustible/organic material may cause fire.	
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Combustible material.	
Incompatible Materials	Strong reducing agents, Organic materials, Powdered metals, Combustible material	
Hazardous Decomposition Products Nitrogen oxides (NOx), lead oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lead(II) nitrate	93 mg/kg (Rat)	Not listed	Not listed
Table allowing allow Ormania the	Ne information available		

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

Risk of serious damage to eyes

No information available

Sensitization

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Lead(II) nitrate	10099-74-8	Group 2A	Not listed	A3	Х	Not listed
IARC: (Internation	al Agency for Rese	earch on Cancer)	IARC: (Inter	rnational Agency for	Research on Cancer)	
				arcinogenic to Huma		
				Probably Carcinoger		
			Group 2B -	Possibly Carcinogen	ic to Humans	
Mutagenic Effects		Mutagenic effects	have occurred in h	umans.		
Reproductive Effect	S	Experiments have	shown reproductiv	e toxicity effects o	n laboratory anima	ls.
Developmental Effe	cts	Developmental eff	ects have occurred	d in experimental a	inimals.	
Teratogenicity		Teratogenic effects	s have occurred in	experimental anin	nals.	
		•	(0)(0)			
STOT - single expos		Central nervous sy	· · ·			
STOT - repeated exp	oosure	Kidney Liver Blood				
Aspiration hazard		No information ava	ailahle			
Symptoms / effects		No information ava	ailable			
both acute and dela	,					

Endocrine Disruptor Information

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

This product contains a chemical which is listed as a marine pollutant according to DOT

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Lead(II) nitrate	Not listed	LC50: 1.5 mg/l/96 h (Oncorhynchus mykiss) LC50: 0.4 - 1.3 mg/l/96 H	Not listed	EC50: 0.5 - 2 mg/l/48 H (Daphnia magna)
		(Cyprinus carpio)		
Persistence and Degrada	bility based on info	ormation available. May pe	rsist	
Bioaccumulation/ Accum	ulation No information	on available.		
Mobility	Will likely be	mobile in the environment	due to its water solubility.	
	13. Di	sposal considera	ations	
Waste Disposal Methods	Chemical wa	ste generators must deterr	nine whether a discarded	chemical is classified as a
	hazardous w	aste. Chemical waste gen	erators must also consult	ocal, regional, and
	national haza	ardous waste regulations to	ensure complete and acc	curate classification.
	14. T	ransport information	ation	
DOT		•		
UN-No	UN1469			
Proper Shipping Nam	e LEAD NITRA	TE		
Hazard Class	5.1			
Subsidiary Hazard Cla	ass 6.1			
Packing Group	II			
TDG				
UN-No	UN1469			
Proper Shipping Nam	e LEAD NITRA	TE		
Hazard Class	5.1			
Subsidiary Hazard Cla				
Packing Group	II			
IATA				
UN-No	1469			
Proper Shipping Nam		ATE		
Hazard Class	5.1			
Subsidiary Hazard Cla				
Packing Group	II			
IMDG/IMO	4.400			
UN-No Drange Shinning Nom		тс		
Proper Shipping Nam Hazard Class				
Hazard Class	5.1			

15. Regulatory information

International Inventories

Packing Group

Subsidiary Hazard Class

6.1

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Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Lead(II) nitrate	Х	Х	-	233-245-9	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Lead(II) nitrate	10099-74-8	>95	1.0 0.1
SARA 311/312 Hazardous Categorization			
Acute Health Hazard	Yes		
Chronic Health Hazard	Yes		
Fire Hazard	No		
Sudden Release of Pressure Hazard	No		
Reactive Hazard	Yes		

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Lead(II) nitrate	Х	10 lb	Х	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Lead(II) nitrate	X		-

OSHA Occupational Safety and Health Administration

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Lead(II) nitrate	30 µg/m³ Action Level	-
	50 μg/m³ TWA	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component		Hazardous Substances RQs	CERCLA EHS RQs
Lead(II) nitrate		10 lb	-
California Proposition 65	This product	contains the following Proposition 65 ch	emicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Lead(II) nitrate	10099-74-8	Cancer/Developmental	-	Developmental Carcinogen

State Right-to-Know

		Rhode Island
Lead(II) nitrate X X X	X	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	Y
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

C Oxidizing materials D1B Toxic materials D2A Very toxic materials E Corrosive material



16. Other information

Prepared By

Creation Date Revision Date Print Date Revision Summary Regulatory Affairs Lab Alley LLC Email: customerservice@laballey.com

ate	07-Jul-2009
ate	16-Jan-2022
	16-Jan-2022
ummary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

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.

End of SDS