

Lead(II) nitrate**11520-1KG**

Version 1.1

Revision Date 08/21/2018

Print Date 05/11/2023

SECTION 1. IDENTIFICATION

Product name : Lead(II) nitrate

Number : 000000020926

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : solid

Color : off-white

Odor : odourless

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Classification of the substance or mixture

Classification of the substance or mixture : Oxidizing solids, Category 2
Acute toxicity, Category 4, Oral
Acute toxicity, Category 4, Inhalation
Serious eye damage, Category 1
Carcinogenicity, Category 1B
Reproductive toxicity, Category 1A
Specific target organ toxicity - repeated exposure, Category 2

GHS Label elements, including precautionary statements

Symbol(s)

:



Signal word

: Danger

Hazard statements

: May intensify fire; oxidizer.
Harmful if swallowed or if inhaled
Causes serious eye damage.
May cause cancer.
May damage fertility or the unborn child.
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.
Keep away from heat.
Keep/Store away from clothing/ combustible materials.
Take any precaution to avoid mixing with combustibles.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.

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Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

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

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

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/doctor.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

NTP:	Lead nitrate	10099-74-8
	Reasonably Anticipated to be a Human Carcinogen.	
IARC:	Lead nitrate	10099-74-8
	Group 2A: Probably carcinogenic to humans	
ACGIH:	Lead nitrate	10099-74-8
	A3: Confirmed animal carcinogen	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Formula : N2O6Pb
Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Lead nitrate	10099-74-8	100.00 %

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous area. Immediately take off contaminated clothing and rinse body with plenty of water.

Inhalation : If inhaled, remove to fresh air. Call a physician.

Skin contact : After contact with skin, wash immediately with plenty of water.

Eye contact : Protect unharmed eye. Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.

Ingestion : A person suspected to have swallowed the substance who is conscious should be given water to drink. Take to a doctor immediately together with this card

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO2)
Dry powder

Specific hazards during firefighting : May intensify fire; oxidizer.
Exposure to decomposition products may be a hazard to health.
Do not allow run-off from fire fighting to enter drains or water

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courses.

Fire may cause evolution of:

Lead oxides

nitrogen oxides (NOx)

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
The product itself does not burn.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use water spray to cool unopened containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Ensure adequate ventilation.
Avoid dust formation.
Do not breathe dust.
Do not get in eyes, on skin, or on clothing.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Clean contaminated floors and objects thoroughly while observing environmental regulations.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.
Sweep up and shovel into suitable containers for disposal.
Do not pick up with the help of saw-dust or other combustible substances.
Dispose of in accordance with local regulations.

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SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use product only in closed system.
Avoid exposure - obtain special instructions before use.
Do not breathe dust.
Do not get in eyes, on skin, or on clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Keep away from combustible material.

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Do not store near combustible materials.
Keep locked up or in an area accessible only to qualified or authorised persons.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid exposure - obtain special instructions before use.
Do not breathe dust.
Do not get in eyes, on skin, or on clothing.

Engineering measures : Use with local exhaust ventilation.
Use product only in closed system.

Eye protection : Safety goggles

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- Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Wear suitable protective equipment.
Protective suit
Lab coat
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Separate rooms are required for washing, showering and changing clothes.
Contaminated work clothing should not be allowed out of the workplace.
Wash hands before breaks and at the end of workday.
Regular cleaning of equipment, work area and clothing.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Lead nitrate	10099-74-8	TWA : Time weighted average	0.05 mg/m ³	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Expressed as : as Pb			

Lead nitrate	10099-74-8	REF : Reference:	29 CFR 1910.1025	03 2012	OSHA:US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
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Lead nitrate	10099-74-8	OSHA_A CT : OSHA Action level:	0.03 mg/m3	02 2006	OSHASp:US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Lead nitrate	10099-74-8	TWA : Time weighted average	0.05 mg/m3	02 2006	OSHASp:US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Lead nitrate	10099-74-8	TWA : Time weighted average	0.05 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Expressed as : as Pb			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Color	: off-white
Odor	: odourless
pH	: Note: acidic
Melting point (decomposition)	: 458 - 459 °C at 1,023 hPa Method: 92/69/EEC, A.1
Boiling point/boiling range	: Note: Decomposes on heating.

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Flash point	: Note: Not applicable
Flammability	: The product is not flammable. Method: Flammability (solids)
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: no data available
Density	: 4.49 g/cm ³ at 20.1 °C
Water solubility	: 486 g/l at 20 °C at 1.6 pH
Partition coefficient: n-octanol/water	: Note: no data available
Ignition temperature	: Note: Not applicable
Auto-ignition temperature	: 400 °C
Decomposition temperature	: > 470 °C Note: Decomposition temperature
Viscosity, dynamic	: Note: Not applicable
Viscosity, kinematic	: Note: Not applicable

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Oxidizing properties	: The substance or mixture is classified as oxidizing with the category 2.
Molecular weight	: 331.21 g/mol
Bulk density	: ca. 2,900 kg/m ³

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: May intensify fire; oxidizer.
Conditions to avoid	: Protect from contamination. To avoid thermal decomposition, do not overheat. Keep away from combustible material.
Incompatible materials	: Fire Hazard Reactions with combustible substances. Reactions with metals in powder form. Mixtures of inflammable substances are easily combustible and burn vigorously even under exclusion of air. Combustible material Reducing agents Powdered metals
Hazardous decomposition products	: Hazardous decomposition products Lead oxides nitrogen oxides (NO _x)

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Acute inhalation toxicity	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rat, male and female Method: OECD Test Guideline 402
Skin irritation	: Species: reconstructed human epidermis (RhE) Result: No skin irritation Method: OECD Test Guideline 439
Eye irritation	: Result: Risk of serious damage to eyes. Method: OECD Test Guideline 437
Sensitisation	: Note: Not classified due to data which are conclusive although insufficient for classification.
Aspiration toxicity	: no data available
Further information	: Note: Danger of serious damage to health by prolonged exposure. May damage fertility or the unborn child. May cause cancer. Lead compounds may be absorbed by ingestion, by

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inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

- Toxicity to fish : static test
LC50: 0.107 mg/l
Exposure time: 96 h
Species: *Oncorhynchus mykiss* (rainbow trout)
- : flow-through test
NOEC: 0.0394 mg/l
Exposure time: 84 d
Species: *Salvelinus fontinalis* (Brook trout)
- Toxicity to daphnia and other aquatic invertebrates : static test
LC50: 0.5968 mg/l
Exposure time: 48 h
Species: *Ceriodaphnia dubia* (water flea)
- :
- Toxicity to algae : static test
NOEC: 0.0227 mg/l
Exposure time: 96 h
Species: *Skeletonema costatum* (marine diatom)
- : static test
LOEC: 0.0443 mg/l
Exposure time: 96 h
Species: *Skeletonema costatum* (marine diatom)

Further information on ecology

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 1469
Proper shipping name : LEAD NITRATE
Class : 5.1
Packing group : II
Hazard Labels : 5.1 (6.1)

IATA UN/ID No. : UN 1469
Description of the goods : LEAD NITRATE
Class : 5.1
Packaging group : II
Hazard Labels : 5.1 (6.1)
Packing instruction (cargo aircraft) : 562
Packing instruction (passenger aircraft) : 558
Packing instruction (passenger aircraft) : Y543

IMDG UN/ID No. : UN 1469
Description of the goods : LEAD NITRATE
Class : 5.1
Packaging group : II
Hazard Labels : 5.1 (6.1)
EmS Number : F-A, S-Q
Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

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Inventories

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:

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SARA 311/312 Hazards : Lead nitrate 10099-74-8: Reactivity Hazard
Acute Health Hazard
Chronic Health Hazard**CERCLA Reportable
Quantity** : 10 lbs**California Prop. 65** :**WARNING:** This product can expose you to chemicals,
listed below, known to the State of California to cause cancer and
birth defects or other reproductive harm. For more information go
to www.P65Warnings.ca.gov.

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Lead nitrate 10099-74-8

Massachusetts RTK : Lead nitrate 10099-74-8**New Jersey RTK** : Lead nitrate 10099-74-8**Pennsylvania RTK** : Lead nitrate 10099-74-8**SECTION 16. OTHER INFORMATION**

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	0
Special hazard.	:	OX

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use
of individuals trained in the particular system.

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Further information

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group