

# SAFETY DATA SHEET

according to the OSHA  
Hazard Communication Standard

Version 6.20  
Revision Date 08/12/2026  
Print Date 08/12/2026

## SECTION 1. IDENTIFICATION

### 1.1 Product identifiers

Product name : Lead(II) nitrate

Product Number : 203580  
Brand : Aldrich  
Index-No. : 082-001-00-6  
CAS-No. : 10099-74-8

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

Identified uses : Laboratory chemicals, Synthesis of substances

Restrictions on use : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.  
SPRUCE ST 3050  
63103 St. Louis

Telephone : (314) 771-5765  
Telefax: (800) 325-5052

### 1.4 Emergency telephone number

Emergency Phone # : 800 424 9300 (CHEMTREC) 24/7  
+1 703 527 3887 (CHEMTREC) 24/7

## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Hazards for the product as supplied

|                                                    |                                                                     |
|----------------------------------------------------|---------------------------------------------------------------------|
| Acute toxicity (Oral)                              | : Category 4                                                        |
| Acute toxicity (Inhalation)                        | : Category 4                                                        |
| Serious eye damage                                 | : Category 1                                                        |
| Skin sensitisation                                 | : Sub-category 1B                                                   |
| Carcinogenicity                                    | : Category 2                                                        |
| Reproductive toxicity                              | : Category 1A                                                       |
| Specific target organ toxicity - repeated exposure | : Category 1 (Blood, Central nervous system, Immune system, Kidney) |
| Short-term (acute) aquatic hazard                  | : Category 1                                                        |
| Long-term (chronic) aquatic hazard                 | : Category 1                                                        |

#### Other hazards

None known.

#### GHS label elements

|                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms        | : |                                                                                                                                                                                                                                                                                                                                 |
| Signal word              | : | Danger                                                                                                                                                                                                                                                                                                                                                                                                              |
| Hazard statements        | : | H302 + H332 Harmful if swallowed or if inhaled.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H351 Suspected of causing cancer.<br>H360 May damage fertility or the unborn child.<br>H372 Causes damage to organs (Blood, Central nervous system, Immune system, Kidney) through prolonged or repeated exposure.<br>H410 Very toxic to aquatic life with long lasting effects. |
| Precautionary statements | : | <b>Prevention:</b>                                                                                                                                                                                                                                                                                                                                                                                                  |

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 + P310 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.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance  
CAS-No. : 10099-74-8

**Components**

| Chemical name    | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|------------------|-------------------|-----------------------|--------------|
| Lead(II) nitrate | 10099-74-8*       | >= 90 - <= 100        | -            |

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\* Indicates that the identifier is a CAS No.

Actual concentration is withheld as a trade secret

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## SECTION 4. FIRST AID MEASURES

|                                                             |                                                                                                                                                          |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                                              | : Show this safety data sheet to the doctor in attendance.                                                                                               |
| If inhaled                                                  | : After inhalation: fresh air. Immediately call in physician.<br>If breathing stops: immediately apply artificial respiration, if necessary also oxygen. |
| In case of skin contact                                     | : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.                           |
| In case of eye contact                                      | : After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.<br>Remove contact lenses.                                      |
| If swallowed                                                | : After swallowing: immediately make victim drink water (two glasses at most).<br>Consult a physician.                                                   |
| Most important symptoms and effects, both acute and delayed | : The most important known symptoms and effects are described in the labelling (see section 2 GHS label elements) and/or in section 11                   |
| Protection of first-aiders                                  | : For personal protection see section 8.                                                                                                                 |
| Notes to physician                                          | : No data available                                                                                                                                      |

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## SECTION 5. FIREFIGHTING MEASURES

|                                       |                                                                            |
|---------------------------------------|----------------------------------------------------------------------------|
| Suitable extinguishing media          | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Specific hazards during fire fighting | : Not combustible.<br><br>Ambient fire may liberate hazardous vapours.     |
| Hazardous combustion products         | : Nitrogen oxides (NO <sub>x</sub> )                                       |

Lead oxides

- Specific extinguishing methods : No data available
- Further information : Suppress (knock down) gases/vapours/mists with a water spray jet.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for fire-fighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Advice for non-emergency personnel:  
Avoid generation and inhalation of dusts in all circumstances.  
Avoid substance contact.  
Ensure adequate ventilation.  
Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders:  
Wear appropriate personal protective equipment, as indicated in Section 8.
- Environmental precautions : Do not let product enter drains.
- Methods and materials for containment and cleaning up : Cover drains. Collect, bind, and pump off spills.  
Observe possible material restrictions (see sections 7 and 10).  
Take up carefully. Dispose of properly. Clean up affected area.  
Avoid generation of dusts.

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## SECTION 7. HANDLING AND STORAGE

For precautions see section 2 GHS label elements

- Advice on safe handling : Work under hood. Do not inhale substance/mixture.
- Further information on : Tightly closed.

|                                 |                                                                                                                              |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| storage conditions              | Keep locked up or in an area accessible only to qualified or authorised persons.<br>Do not store near combustible materials. |
| Storage class                   | : 5.1B, Oxidizing hazardous materials                                                                                        |
| Recommended storage temperature | : Recommended storage temperature if relevant, see product label.                                                            |
| Packaging material              | : Suitable material: LDPE Bottle/Jar                                                                                         |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

| Components       | CAS-No.    | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis        |
|------------------|------------|----------------------------------|---------------------------------------------------|--------------|
| Lead(II) nitrate | 10099-74-8 | TWA                              | 0.05 mg/m <sup>3</sup><br>(Lead)                  | ACGIH        |
|                  |            | PEL                              | 0.05 mg/m <sup>3</sup><br>(Lead)                  | OSHA<br>CARC |
|                  |            | TWA                              | 0.05 mg/m <sup>3</sup><br>(Lead)                  | NIOSH REL    |

### Biological occupational exposure limits

| Components       | CAS-No.    | Control parameters | Biological specimen | Sampling time | Permissible concentration | Basis        |
|------------------|------------|--------------------|---------------------|---------------|---------------------------|--------------|
| Lead(II) nitrate | 10099-74-8 | Lead<br>(Lead)     | In blood            | Not critical  | 200 µg/l                  | ACGIH<br>BEI |

**Engineering measures** : No data available

### Personal protective equipment

**Respiratory protection** : Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.  
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

|                          |                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hand protection          |                                                                                                                                                                                                                                                                                                                                                                                               |
| Material                 | : Nitrile rubber                                                                                                                                                                                                                                                                                                                                                                              |
| Break through time       | : 480 min                                                                                                                                                                                                                                                                                                                                                                                     |
| Glove thickness          | : 0.11 mm                                                                                                                                                                                                                                                                                                                                                                                     |
| Protective index         | : Full contact                                                                                                                                                                                                                                                                                                                                                                                |
| Manufacturer             | : KCL 741 Dermatril® L                                                                                                                                                                                                                                                                                                                                                                        |
| Material                 | : Nitrile rubber                                                                                                                                                                                                                                                                                                                                                                              |
| Break through time       | : 480 min                                                                                                                                                                                                                                                                                                                                                                                     |
| Glove thickness          | : 0.11 mm                                                                                                                                                                                                                                                                                                                                                                                     |
| Protective index         | : Splash contact                                                                                                                                                                                                                                                                                                                                                                              |
| Manufacturer             | : KCL 741 Dermatril® L                                                                                                                                                                                                                                                                                                                                                                        |
| Remarks                  | : This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: <a href="http://www.kcl.de">www.kcl.de</a> ). |
| Eye protection           | : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).<br>Tightly fitting safety goggles                                                                                                                                                                                                                             |
| Skin and body protection | : protective clothing                                                                                                                                                                                                                                                                                                                                                                         |
| Hygiene measures         | : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.                                                                                                                                                                                                                                                               |

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                 |                                                  |
|-----------------|--------------------------------------------------|
| Appearance      | : solid (68 °F / 20 °C, 1,013 hPa)               |
| Colour          | : colourless<br><br>white                        |
| Odour           | : odourless                                      |
| Odour Threshold | : Not applicable                                 |
| pH              | : 3 - 4 (68 °F / 20 °C)<br>Concentration: 50 g/l |

|                                                     |                                                                                                  |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Melting point/ range                                | : 878 °F / 470 °C<br>Method: dec.                                                                |
| Boiling point/boiling range                         | : 932 °F / 500 °C (1,023 hPa)<br>Method: Regulation (EC) No. 440/2008, Annex, A.2                |
| Flash point                                         | : Not applicable                                                                                 |
| Evaporation rate                                    | : Not applicable                                                                                 |
| Flammability (solid, gas)                           | : The product is not flammable.                                                                  |
| Flammability (liquids)                              | : No data available                                                                              |
| Burning rate                                        | : No data available                                                                              |
| Self-ignition                                       | : 752 °F / 400 °C<br>1,023 hPa<br>Method: Relative self-ignition temperature for solids          |
| Upper explosion limit /<br>Upper flammability limit | : Not applicable                                                                                 |
| Lower explosion limit /<br>Lower flammability limit | : Not applicable                                                                                 |
| Vapour pressure                                     | : < 0.1 hPa (68 °F / 20 °C)<br>Method: OECD Test Guideline 104<br>low                            |
| Relative vapour density                             | : Not applicable                                                                                 |
| Relative density                                    | : 4.77 (74.5 °F / 23.6 °C)<br>Method: Regulation (EC) No. 440/2008, Annex, A.3<br>GLP: yes       |
| Density                                             | : 4.49 g/cm <sup>3</sup> (68 °F / 20 °C)<br>Method: OECD Test Guideline 109                      |
| Solubility(ies)<br>Water solubility                 | : 486 g/l completely soluble (68 °F / 20 °C)<br>Method: Regulation (EC) No. 440/2008, Annex, A.6 |
| Partition coefficient: n-<br>octanol/water          | : Not applicable for inorganic substances                                                        |
| Autoignition temperature                            | : not combustible                                                                                |
| Decomposition<br>temperature                        | : No data available                                                                              |

|                          |                     |
|--------------------------|---------------------|
| Viscosity                |                     |
| Viscosity, dynamic       | : Not applicable    |
| Viscosity, kinematic     | : No data available |
| Flow time                | : No data available |
| Explosive properties     | : GLP: yes          |
| Oxidizing properties     | : No data available |
| Molecular weight         | : 331.21 g/mol      |
| Particle characteristics |                     |
| Particle size            | : No data available |

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## SECTION 10. STABILITY AND REACTIVITY

|                                    |                                                                                                                     |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : No data available                                                                                                 |
| Chemical stability                 | : The product is chemically stable under standard ambient conditions (room temperature) .                           |
| Possibility of hazardous reactions | : Risk of explosion with:<br>organic combustible substances<br>ammonium compounds<br>acetates<br>Alcohols<br>Esters |
| Conditions to avoid                | : no information available                                                                                          |
| Incompatible materials             | : No data available                                                                                                 |
| Hazardous decomposition products   | : For Hazardous combustion products in the event of fire: see section 5                                             |

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## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Oral: No data available

Inhalation: No data available

LD50 Dermal - Rat - male and female - > 2,000 mg/kg  
(OECD Test Guideline 402)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Lead(II) oxide red

No data available

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**Skin corrosion/irritation**

Skin - In vitro study

Result: non-corrosive

(OECD Test Guideline 431)

Skin - In vitro study

Result: No skin irritation - 42 min

(OECD Test Guideline 439)

**Serious eye damage/eye irritation**

Eyes - Bovine cornea

Result: Causes serious eye damage. - 4 h

(OECD Test Guideline 437)

**Respiratory or skin sensitization**

Local lymph node assay (LLNA) - Mouse

Result: positive

(OECD Test Guideline 429)

**Germ cell mutagenicity**

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Remarks: (in analogy to similar products)

(ECHA)

Test Type: Micronucleus test

Species: Rat

Cell type: Red blood cells (erythrocytes)

Application Route: Oral

Result: positive

Remarks: (in analogy to similar products)

(ECHA)

The value is given in analogy to the following substances: lead(II) acetate

Test Type: Chromosome aberration test

Species: Monkey

Cell type: lymphocyte

Application Route: Oral

Result: positive

Remarks: (in analogy to similar products)

(ECHA)

Test Type: comet assay

Species: Mouse

Cell type: Liver cells

Application Route: Inhalation

Result: negative

Remarks: (in analogy to similar products)

(ECHA)

**Carcinogenicity**

Suspected of causing cancer.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive toxicity**

May damage the unborn child. Positive evidence from human epidemiological studies.

Suspected of damaging fertility.

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

Causes damage to organs through prolonged or repeated exposure.

- Blood, Central nervous system, Immune system, Kidney

**Aspiration hazard**

No data available

**11.2 Additional Information**

RTECS: OG2100000

Lead salts have been reported to cross the placenta and to induce embryo- and fetomortality.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Systemic effects:

After absorption:

After a latency period:

Salivation

Vomiting

drop in blood pressure

A lethal effect is possible after the uptake of large quantities.

The following applies to lead compounds in general: Due to the poor absorbability via the gastrointestinal tract, only very high doses lead to acute cases of intoxication. After a latency period of several hours, metallic taste, nausea, vomiting, and colics occur, in many instances followed by shock. Chronic uptake causes peripheral muscular weakness ("drop-wrist"), anaemia, and central-nervous disorders. Women of child-bearing age should not be exposed to the substance over longer periods of time (observe critical threshold).

The following applies to nitrites/nitrates in general: methaemoglobinaemia after the uptake of large quantities.

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### **Lead(II) nitrate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.1 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.8 mg/l  
Exposure time: 48 h  
Remarks: (ECOTOX Database)

Toxicity to algae/aquatic plants : EC50 (algae): 0.024 - 0.029 mg/l  
Exposure time: 28 h  
Remarks: (Lit.)

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 1.337 mg/l  
End point: mortality  
Exposure time: 7 d  
Test Type: semi-static test  
Analytical monitoring: yes  
GLP: yes  
Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 0.0224 mg/l  
End point: mortality  
Exposure time: 7 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: US-EPA

GLP: yes

M-Factor (Chronic aquatic : 1  
toxicity)

### **Persistence and degradability**

#### **Components:**

##### **Lead(II) nitrate:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

### **Bioaccumulative potential**

#### **Components:**

##### **Lead(II) nitrate:**

Partition coefficient: n-octanol/water : Remarks: Not applicable for inorganic substances

### **Mobility in soil**

No data available

### **Other adverse effects**

#### **Components:**

##### **Lead(II) nitrate:**

Additional ecological information : Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of drinking- water supplies.

Discharge into the environment must be avoided.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **Endocrine disrupting properties**

No data available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

Waste from residues : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product

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itself.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1469  
Proper shipping name : Lead nitrate  
Class : 5.1  
Subsidiary risk : 6.1  
Packing group : II  
Labels : Division 5.1 - Oxidizing substances, Division 6.1 - Toxic substances  
Packing instruction (cargo : 562  
aircraft)  
Packing instruction : 558  
(passenger aircraft)

#### IMDG-Code

UN number : UN 1469  
Proper shipping name : LEAD NITRATE  
  
Class : 5.1  
Subsidiary risk : 6.1  
Packing group : II  
Labels : 5.1 (6.1)  
EmS Code : F-A, S-Q  
Marine pollutant : yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

UN/ID/NA number : UN 1469  
Proper shipping name : Lead nitrate  
  
Class : 5.1  
  
Subsidiary risk : 6.1  
Packing group : II  
Labels : Division 5.1 - Oxidizing substances, Division 6.1 - Toxic substances  
ERG Code : 141  
Marine pollutant : yes  
Poison Inhalation Hazard : No

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

| Components       | CAS-No.    | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------------|------------|--------------------|-----------------------------|
| Lead(II) nitrate | 10099-74-8 | 10                 | 10                          |

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Reactivity Hazard  
Acute Health Hazard  
Chronic Health Hazard

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

|                  |            |                  |
|------------------|------------|------------------|
| Lead(II) nitrate | 10099-74-8 | >= 90 - <= 100 % |
|------------------|------------|------------------|

### US State Regulations

#### Massachusetts Right To Know

|                  |            |
|------------------|------------|
| Lead(II) nitrate | 10099-74-8 |
|------------------|------------|

#### Pennsylvania Right To Know

|                  |            |
|------------------|------------|
| Lead(II) nitrate | 10099-74-8 |
|------------------|------------|

#### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### Vermont Chemicals of High Concern

|                  |            |
|------------------|------------|
| Lead(II) nitrate | 10099-74-8 |
|------------------|------------|

#### Washington Chemicals of High Concern

Product does not contain any listed chemicals

### California Prop. 65

**WARNING:** This product can expose you to chemicals including Lead(II) nitrate, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). **The components of this product are reported in the following inventories:**

US TSCA : All substances listed as active on the TSCA inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

|                 |                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------|
| ACGIH           | : USA. ACGIH Threshold Limit Values (TLV)                                                   |
| ACGIH BEI       | : ACGIH - Biological Exposure Indices (BEI)                                                 |
| NIOSH REL       | : USA. NIOSH Recommended Exposure Limits                                                    |
| OSHA CARC       | : OSHA Specifically Regulated Chemicals/Carcinogens                                         |
| ACGIH / TWA     | : 8-hour, time-weighted average                                                             |
| NIOSH REL / TWA | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| OSHA CARC / PEL | : Permissible exposure limit (PEL)                                                          |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LSPN - List of Hazardous Notified Substances (Chile); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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