

Smith  
Science



Material Safety Data Sheet

Lead(II)nitrate, Crystals

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Lead(II)nitrate**Catalog Numbers:** 19332-0000, 19332-0100, 21156-0000, 21156-0010, 21156-0050, 21156-5000,

42385-0000, 42385-5000

**Synonyms:****Company Identification:**Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

dist. by  
Griffin +  
George

**Company Identification: (USA)**Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410**For information in the US, call:**

800-ACROS-01

**For information in Europe, call:**

+32 14 57 52 11

**Emergency Number, Europe:**

+32 14 57 52 99

**Emergency Number US:**

201-796-7100

**CHEMTREC Phone Number, US:**

800-424-9300

**CHEMTREC Phone Number, Europe:**

703-527-3887

## Section 2 - Composition, Information on Ingredients

**CAS# Chemical Name: % EINECS#**

10099-74-8 Lead(II)nitrate &gt;99% 233-245-9

**Hazard Symbols:** T O N**Risk Phrases:** 61 20/22 33 50/53 62 8

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

*Harmful by inhalation and if swallowed. Danger of cumulative effects. Contact with combustible material may cause fire. May cause harm to the unborn child. Possible risk of impaired fertility. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

### Potential Health Effects

**Eye:** Contact with eyes may cause severe irritation, and possible eye burns.**Skin:** Causes redness and pain.**Ingestion:** Harmful if swallowed. May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea.**Inhalation:** Harmful if inhaled. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.**Chronic:** Prolonged or repeated exposure may cause adverse reproductive effects. May cause liver and kidney damage. Prolonged exposure may cause anemia and methemoglobinemia, characterized by dizziness, drowsiness, headache, breath shortness, cyanosis (bluish skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown colored blood.



## Section 4 - First Aid Measures

- Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
- Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Ingestion:** Get medical aid immediately. Wash mouth out with water.
- Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Notes to Physician:**

## Section 5 - Fire Fighting Measures

- General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire. Substance is noncombustible.
- Extinguishing Media:** Use water only!

## Section 6 - Accidental Release Measures

- General Information:** Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

## Section 7 - Handling and Storage

- Handling:** Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.
- Storage:** Do not store near combustible materials. Store in a cool, dry place. Store in a tightly closed container.

## Section 8 - Exposure Controls, Personal Protection

### Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

CAS# 10099-74-8:

United Kingdom, WEL - TWA: ( lead compounds): 0.15 mg/m<sup>3</sup> TWA (as Pb)  
United Kingdom, WEL - STEL: ( lead compounds): 0.45 mg/m<sup>3</sup> TWA (as Pb)

United States OSHA: 50 æg/m<sup>3</sup> TWA (as Pb); 30 æg/m<sup>3</sup> Action Level (as Pb. Poison - see 29 CFR 1910.10 25) (Lead, inorganic compounds).

Belgium - TWA: ( lead, inorganic compounds): 0.15 mg/m<sup>3</sup> VLE (dust and fume)

France - VME: ( lead compounds): 0.1 mg/m<sup>3</sup> VME (as Pb)

Germany: ( lead compounds): 0.1 mg/m<sup>3</sup> VME (as Pb)

Japan: ( lead compounds): 0.1 mg/m<sup>3</sup> OEL (except alkyl lead compounds, as Pb)

Malaysia: ( lead, inorganic compounds): 0.05 mg/m<sup>3</sup> TWA (as Pb)

Netherlands: ( lead, inorganic compounds): 0.15 mg/m<sup>3</sup> MAC (dust and smoke, as Pb)

Russia: ( lead, inorganic compounds): 0.05 mg/m<sup>3</sup> TWA (aerosol, as Pb)

Spain: ( lead, inorganic compounds): 0.15 mg/m<sup>3</sup> VLA-ED (as Pb)



**Personal Protective Equipment**

- Eyes:** 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:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to minimize contact with skin.
- Respirators:** 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.

**Section 9 - Physical and Chemical Properties**

- Physical State:** Solid
- Color:** white
- Odor:** Not available
- pH:** 3-4 (20% aq. sol.)
- Vapor Pressure:** Not available
- Viscosity:** Not available
- Boiling Point:** Not available
- Freezing/Melting Point:** 470 deg C(decom)
- Autoignition Temperature:** Not available
- Flash Point:** Not available
- Explosion Limits: Lower:** Not available
- Explosion Limits: Upper:** Not available
- Decomposition Temperature:** Not available
- Solubility in water:** 343 g/l
- Specific Gravity/Density:** 4.530
- Molecular Formula:** N2O6Pb
- Molecular Weight:** 331.2

**Section 10 - Stability and Reactivity**

- Chemical Stability:** Stable under normal temperatures and pressures.
- Conditions to Avoid:** Incompatible materials, combustible materials, temperatures above 250° C.
- Incompatibilities with Other Materials:** Strong reducing agents, finely powdered metals, cyanides (e.g. potassium cyanide, sodium cyanide), esters (e.g. butyl acetate, ethyl acetate, propyl formate), hypophosphites.
- Hazardous Decomposition Products:** Nitrogen oxides, lead/lead oxides.
- Hazardous Polymerization:** Has not been reported.

**Section 11 - Toxicological Information**

- RTECS#:** CAS# 10099-74-8: OG2100000
- LD50/LC50:** RTECS: Not available.
- Carcinogenicity:** Lead(II)nitrate - California: carcinogen, initial date 10/1/92 (Lead compounds). NTP: Suspect carcinogen (Lead compounds). IARC: Group 2B carcinogen
- Other:** See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated. May cause adverse reproductive effects.

**Section 12 - Ecological Information**

- Ecotoxicity:** Not available

**Section 13 - Disposal Considerations**

- Dispose of in a manner consistent with federal, state, and local regulations.

**Section 14 - Transport Information**

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	LEAD NITRATE	LEAD NITRATE	LEAD NITRATE
<b>Hazard Class:</b>	5.1 (6.1)	5.1 (6.1)	5.1 (6.1)
<b>UN Number:</b>	1469	1469	1469
<b>Packing Group:</b>	II	II	II

USA RQ: CAS# 10099-74-8: 10 lb final RQ; 4.54 kg final RQ

Marine Pollutant

**Section 15 - Regulatory Information****European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: T O N

Risk Phrases:

R 61 May cause harm to the unborn child.

R 20/22 Harmful by inhalation and if swallowed.

R 33 Danger of cumulative effects.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 62 Possible risk of impaired fertility.

R 8 Contact with combustible material may cause fire.

Safety Phrases:

S 53 Avoid exposure - obtain special instructions before use.

S 17 Keep away from combustible material.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 60 This material and its container must be disposed of as hazardous waste.

WGK (Water Danger/Protection)

CAS# 10099-74-8: 2

Canada

CAS# 10099-74-8 is listed on Canada's DSL List

**US Federal**

TSCA

CAS# 10099-74-8 is listed on the TSCA Inventory.

**Section 16 - Other Information**

**MSDS Creation Date:** 6/20/1997

**Revision #2 Date** 2/08/2005

**Revisions were made in Sections:** General revision.

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