

**LEAD NITRATE****1000**

March 1999

CAS No: 10099-74-8  
 RTECS No: OG2100000  
 UN No: 1469  
 EC No: 082-001-00-6

Lead (II) nitrate  
 Lead dinitrate  
 Plumbous nitrate  
 $N_2O_6Pb / Pb(NO_3)_2$   
 Molecular mass: 331.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Not combustible but enhances combustion of other substances.	NO contact with flammable substances.	In case of fire in the surroundings: water spray.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.

EXPOSURE		AVOID ALL CONTACT! AVOID EXPOSURE OF (PREGNANT) WOMEN!	IN ALL CASES CONSULT A DOCTOR!
<b>Inhalation</b>	Cough. Sore throat.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>Skin</b>	Redness. Pain.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>Eyes</b>	Redness. Pain.	Safety goggles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Abdominal pain. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention. See Notes.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT absorb in saw-dust or other combustible absorbents. Do NOT let this chemical enter the environment. Chemical protection suit including self-contained breathing apparatus.	<p>T Symbol            N Symbol            R: 61-20/22-33-62-50/53            S: 53-45-60-61            Note: A, E            UN Hazard Class: 5.1            UN Subsidiary Risks: 6.1            UN Pack Group: II</p> <p>Do not transport with food and feedstuffs. Marine pollutant.</p>

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-51GOT2-I+II+III	Separated from combustible and reducing substances, food and feedstuffs.

### IMPORTANT DATA

**Physical State; Appearance**

WHITE OR COLOURLESS CRYSTALS

**Chemical dangers**

The substance decomposes on heating (290/C) producing toxic fumes of nitrogen oxides and lead oxides. The substance is a strong oxidant and reacts violently with combustible and reducing materials. Reacts violently with ammonium thiocyanate, red hot carbon, lead hypophosphate.

**Occupational exposure limits**

TLV: (as Pb) 0.05 mg/m<sup>3</sup> as TWA; A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued; (ACGIH 2004).  
MAK: (as Pb) (Inhalable fraction); Carcinogen category: 3B; Germ cell mutagen group: 3A; (DFG 2004).

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

**Inhalation risk**

Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.

**Effects of short-term exposure**

The substance is irritating to the eyes, the skin and the respiratory tract.

**Effects of long-term or repeated exposure**

The substance may have effects on the blood, gastrointestinal tract, kidneys, liver and nervous system, resulting in anaemia, hypertension, kidney impairment, liver impairment, convulsions, paralysis. This substance is possibly carcinogenic to humans. Does cause serious reproductive toxicity in humans.

### PHYSICAL PROPERTIES

Melting point (decomposes): 290/C  
Relative density (water = 1): 4.6

Solubility in water, g/100 ml at 20/C: 52

### ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment. In the food chain important to humans, bioaccumulation takes place, specifically in marine and terrestrial organism. It is strongly advised not to let the chemical enter into the environment because it persists in the environment.

### NOTES

Depending on the degree of exposure, periodic medical examination is suggested.  
Do NOT take working clothes home.

Card has been partly updated in April 2005. See sections Occupational Exposure Limits, EU classification, Emergency Response.

### ADDITIONAL INFORMATION

**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible