



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : L 30329  
Product Name : LEAD NITRATE

### Manufacturer/supplier identification

Company : NICE Chemicals (P) Ltd., Cochin, India  
Tel - 0484 2800212, 2802755

Contact for information : Tel. No.- 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Telefax No. : 0484 2802483

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No : 10099-74-8 EC-Index No. : 082-001-00-6  
Molar Mass : ---- EC-No. : 233-245-9  
Molecular Formula :  $N_2 O_6 Pb$

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**3. HAZARDS IDENTIFICATION** : May cause harm to the unborn child. Possible risk of impaired fertility.  
Also harmful by inhalation and if swallowed. Danger of cumulative effects.

Restricted to professional users. Attention - Avoid exposure - obtain special  
instructions before use.

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**4. FIRST AID MEASURES** : After inhalation : Fresh air. If breathing stops : immediately apply mechanical  
ventilation. If necessary oxygen mask. Immediately summon doctor.

After skin contact : Wash off with plenty of water. Dab with polyethylene glycol 400.  
Immediately remove contaminated clothing.

After eye contact : Rinse out with plenty of water for at least 10 minutes with the  
eyelid held wide open. Immediately summon eye specialist.



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After swallowing : Make victim drink plenty of water, induce vomiting. Summon doctor. Clean skin of vomit.

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**5. FIRE-FIGHTING MEASURES** : Suitable extinguishing media : In adaption to materials stored in the immediate

neighbourhood.

Special risks : Non - combustible. Ambient fire may liberate hazardous vapours.

The following may develop in event of fire : Nitrogen oxides.

Special protective equipment for fire fighting : Do not stay in dangerous zone without self-contained breathing apparatus.

Other information : Prevent fire-fighting water from entering surface water or groundwater.

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### **6. ACCIDENTAL RELEASE MEASURES**

Person-related precautionary measures: Avoid substance contact. Avoid generation of dusts;do not inhale dusts.

Environmental-protection measures : Do not allow to enter sewerage system.

Procedures for cleaning/absorption : Take up dry. Forward for disposal.

Clean up affected area.

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**7. HANDLING AND STORAGE** : Handling : No further requirements.

Storage : Tightly closed. Away from combustible substances. Keep away from sources of ignition and heat. At +15° C to +25° C

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respiratory protection : Required when dusts are  
generated.

Eye protection : Required

Hand protection : Required

Industrial hygiene : Change contaminated clothing.

Wash hands and face after working with substance.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid
Colour	: White
Odour	: Almost odourless
pH value at 50 <sub>2</sub> gm/lt. H <sub>2</sub> O (20° C)	: 3 - 4
Melting temperature	: Near 470° C
Boiling temperature	: Not available
Ignition temperature	: Not available
Flash Point	: Not available
Explosion limit lower	: Not available
upper	: Not available
Relative vapour density	: Not available
Density (20° C)	: 4.53 gm/cm <sup>3</sup>
Bulk Density	: Near 1850 kg/m <sup>3</sup>
Solubility in Water (20° C)	: 525 gm/lt.
Thermal decomposition	: >470° C

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**10. STABILITY & REACTIVITY** : Conditions to be avoided : No information available

Substances to be avoided : Organic combustible substances, alcohols  
esters, ammonium compounds, acetates .



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Hazardous decomposition products : Nitrous gases

Further information : Strong oxidizing agent, explosible.

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity : The data available to us do not suffice to permit any industrial-toxicological assessment.

Subacute to chronic toxicity : Pregnant women should not be exposed to the product. Animal experiments suggest that the substance may lead to an impairment of reproductive performance also in man.

Further toxicological information :

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).

After swallowing : Latency time until onset of action.

After swallowing of large amounts : nausea, vomiting.

After long-term exposure to the chemical: CNS disorders.

Further data : Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

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## 12. ECOLOGICAL INFORMATION

Ecotoxic effects : The following applies to lead compounds in general :

biological effects : toxic for aquatic organisms (calc. as free lead) : fish : lethal from 1.4mg/lt. up; *S.gairdnerii* : LC<sub>50</sub> : 0.14mg/lt./96h; *L.idus* LC<sub>50</sub> : 546 mg/lt; fish test LC<sub>50</sub>: 236 mg/lt; bacteria : *Ps.putida* toxic from 1.8 mg/lt.up; algae: *Sc.quadricauda* toxic from 3.7mg/lt. up; *M. aeruginosa* 0.45mg/lt.; protozoa : *E. sulcatum* toxic from 0.02 mg/lt. up; *U.parduczi* toxic from 0.07 mg/lt.; arthropods : *D.magna* LC<sub>50</sub> : 2.5 mg/lt.; hazard for drinking water. The following applies to nitrates in general: may contribute to the eutrophication of water supplies.

Hazard for drinking water, fish : LC<sub>50</sub> >500 mg/lt.

Further ecologic data : Do not allow to enter waters,  
waste water, or soil!

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**13. DISPOSAL METHOD** : There are no uniform EC Regulations for the disposal of chemicals or residues.

Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws & regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

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## 14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class : 5.1 Number and letter : 29b

ADR/RID class : 5.1 Number and letter : 29b



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Name of material : LEAD NITRATE

Sea Transport IMDG : IMDG class : 5.1 UN No. : 1469 Packing group : II  
Ems : 5.1 - 05 MFAG : 110  
Correct Technical Name : LEAD NITRATE

Air Transport ICAO-TI  
and IATA-DGR : ICAO/IATA class : 5.1/6.1 UN No. : 2291  
Packaging group : II  
Correct Technical Name : LEAD NITRATE

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## 15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : T Toxic

R-phrases : 61-62-20/22-33 May cause harm to the unborn child. Possible risk of impaired fertility. Also harmful by inhalation and if swallowed.  
Danger of cumulative effects.

S-phrases : 53-45 Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EC-No. : 233-245-9 EC label

Water pollution class : 2 (polluting substance)

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### **16. OTHER INFORMATION**

Reason for alteration

Change in labelling.

Change in the chapter on toxicology.

The information contained herein is based on the present state of our knowledge.

It characterises the product with regard to the appropriate safety precautions.

It does not represent a guarantee of the properties of the product.

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