



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : L 10629
Product Name : LEAD MONOXIDE

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Litharge

CAS-No : 1317-36-8 EC-Index No. : 082-001-00-6
Molar Mass : 223.19 EC-No. : 215-267-0
Molecular Formula : OPb

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.

4. FIRST AID MEASURES : After inhalation : Fresh air. If necessary, apply mouth-to-mouth resuscitation or mechanical ventilation.

After skin contact : Wash off with plenty of water.
Remove contaminated clothing.

After eye contact : Rinse out under running water.



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After swallowing : Make victim drink plenty of water,
Sodium sulphate (1 tablespoon/1/4 lt. water).
Gastric lavage.

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

Special risks : None

Other information : Non-combustible.

6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning/absorption : Take up dry. Forward for disposal.
Clean up affected area. Avoid generation of dusts.

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

Storage : Tightly closed. Away from combustible substances. At +15° C to +25° C

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 after working with substance. Apply skin-protective barrier cream.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid
Colour	: Yellow
Odour	: Odourless
pH value at 50 gm/lit. H ₂ O (20° C)	: 5 - 6 (slurry)
Melting temperature	: 890° C
Boiling temperature	: 1470° C
Ignition temperature	: Not available
Flash Point	: Not available
Explosion limit lower	: Not available
upper	: Not available
Relative vapour density	: Not available
Density (20° C)	: 9.6 gm/cm ³
Bulk Density	: Near 3500 - 3700 kg/m ³
Solubility in Water (20° C)	: Insoluble

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

Substances to be avoided : aluminium, alkali metals, metals (in powder form), carbides, boron, hydrides, halogens/alkenes, performic acid, silanes, vegetable/animal oils, sulphur oxides, hydrogen peroxide.

Hazardous decomposition products : No information available

Further information : Oxidizing agent

11. TOXICOLOGICAL INFORMATION

Acute toxicity : Quantitative data on the toxicity of this product are not available.



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Subacute to chronic toxicity : 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)

Further data : Further hazardous properties cannot be excluded.

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/lit. up; *S.gairdnerii* : LC₅₀ : 0.14 mg/lit./96h; *L.idus* LC₅₀ : 546 mg/lit; fish test LC₅₀ :236mg/lit; bacteria : *Ps.putida* toxic from 1.8 mg/lit.up; algae: *Sc.quadricauda* toxic from 3.7 mg/lit. up; *M. aeruginosa*0.45 mg/lit.; protozoa : *E. sulcatum* toxic from 0.02mg/lit. up; *U.parduczi* toxic from0.07mg/lit.; arthropods : *D.magna* LC₅₀ : 2.5mg/lit.; hazard for drinking water. The following applies to nitrates in general: may contribute to the eutrophication of water supplies.

Hazard for drinking water, fish : LC₅₀ >500 mg/lit.

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 and 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.

14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class : 6.1 Number and letter : 62c
ADR/RID class : 6.1 Number and letter : 62c
Name of material : LEAD MONOXIDE

Sea Transport IMDG : IMDG class : 6.1 UN No. : 2291 Packing group : III
Ems : 6.1-04 MFAG : 110, 4.3
Correct Technical Name : LEAD MONOXIDE

Air Transport ICAO-TI

and IATA-DGR : ICAO/IATA class : 6.1 UN No. : 2291
Packaging group : III
Correct Technical Name : LEAD MONOXIDE



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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. : 215-267-0 EC label

Water pollution class : 1 (slightly polluting substance)

16. OTHER INFORMATION :

Reason for alteration

Change in labelling.

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.
