



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : L 11529
Product Name : Lead Dioxide (Lead Peroxide)

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 :

CAS-No	:	1309-60-0	Ec-Index No.:	082-001-00-6
Molar Mass	:	239.2	EC-No. :	215-174-5
Molecular Formula	:	O ₂ Pb		

3. **HAZARDS IDENTIFICATION** : May cause harm to unborn child. Possible risk of impaired fertility. Also harmful by inhalation and if swallowed.
Danger of cumulative effects. Restricted to professional users.
Obtain special instructions before use.

4. **FIRST AID MEASURES** : After inhalation : fresh air . summon doctor
After skin contact : wash off with plenty of water .
After eye contact : rinse out with plenty of water with eyelids held open .
After swallowing : make victim drink plenty of water .
Activated charcoal. gastric lavage.

5. **FIRE – FIGHTING MEASURES** : Suitable extinguishing media : In adaption to materials available in the immediate neighbourhood
Special risks : Has a fire promoting effect due to release of oxygen.
Special protective equipment for fire fighting:



SAFETY DATA SHEET

Catalogue No. : L 11529
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Do not stay in dangerous zone without suitable chemical protection clothing and self contained breathing apparatus.
Other Information : Non-combustible
Prevent fire fighting water from entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES : Procedures for cleaning / absorption :

Take up dry. Forward for disposal. Clean up affected area.

Person – related precautionary measures :

Avoid generation of dusts , do not inhale dusts

Avoid substance contact.

Environmental protection measures:

Do not allow to enter sewage system.

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

Storage : Tightly closed .In a well ventilated

Place. Accessible only for authorised Persons.

Place, away from sources of ignition and heat.

At +15⁰C to +25⁰C.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : required when dusts are generated .

Eye protection : required

Hand protection : required

Protective clothing should be selected for the Working place depending on concentration and Quantity of the hazardous substance handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.



SAFETY DATA SHEET

Catalogue No. : L 11529
Product Name : Lead Dioxide (Lead Peroxide)

Industrial hygiene : Change contaminated clothing . Application of skin protective barrier cream recommended . Wash hands after working with substance .

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid
Colour : brown to dark brown
Odour : odourless
Melting temperature : 250 °C
Boiling temperature : Not available
PHvalue
at 100g/l H₂O(20°C) : 6-7
Ignition temperature : Not available
Flash point : Not available
Explosion limits lower : Not available
Upper : Not available
Relative vapour density : Not available
Density (20°C) : 9.4 g/cm³
Solubility in
water (20°C) : almost insoluble

10. STABILITY AND REACTIVITY : Conditions to be avoided : no information available.
Substance to be avoided :H₂O₂,carbides, Al in powder form ,metals in powder form, boron, semi metals, alkali metals, sulphur oxides, semi metals.
Hazardous decomposition products :
no information available

11. TOXICOLOGICAL INFORMATION : Acute Toxicity
Quantitative data on the toxicity of ths product are not available
Subacute to chronic toxicity



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The information available to us suggests that the risk of an embryo toxic effect must be considered probable. Pregnant women should not be exposed to the product. Animal experiments suggest that the substance may lead to an impairment of reproductive performance in man also.

Further toxicological information

The following applies to lead compounds in general. Due to the poor absorbability via 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, anaemia, and central-nervous disorders. Women of child bearing age should not be exposed to the substance over longer periods of time.

Further data

The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION : Ecotoxic effect

The following applies to lead compounds in general: biological effects: Toxic for aquatic organisms (calc as free lead) : fish: lethal from 1.4mg/l up; *S. gairdnerii*: LC₀: 0.14mg/l/96h; *L. lidus* LC₀: 546mg/l; fish test LC₅₀: 236 mg/l; bacteria : *Ps. putida* toxic from 1.8 mg/l up; algae: *Sc. quadricauda* toxic from 3.7 mg/l up; hazardous for drinking water.

Further ecologic data:

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. DISPOSAL METHOD : Product : 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.



SAFETY DATA SHEET

Catalogue No. : **L 11529**
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disposal companies which will advise you on how to dispose of special waste .
Packaging : Disposal in compliance with official Regulations . Handle contaminated packaging as 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:5.1 Number and letter:29 c
ADR/RID class : 5.1 Number and letter:29 c
Name of material : lead per oxide

River transport AND/ADNR: Not examined

Sea transport IMDG : IMDG class:5.1 UN –No.:1872 Packaging group: III
Ems :5.1-06 MFAG: 110
Correct technical name: lead per oxide

Air transport

ICAO-TI and IATA-DGR: ICAO/IATA class:5.1 UN/ID-No.: 1872 Packaging group: III
Correct technical name: Lead dioxide

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

Water pollution class : 0 (non polluting substance)



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16. OTHER INFORMATION

Reason for alteration

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.
