



# SAFETY DATA SHEET

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

Catalogue No. : L 10825  
Product Name : LEAD BORATE

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

CAS-No : 35498-15-8 EC Index No. : 082-001-00-6  
Molecular Formula :  $BH_3O_3 \cdot xPb$  EC –No. : 252-594-8

---

## 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-special instructions before use.

---

4. **FIRST AID MEASURES** : After skin contact: wash off under running water. Remove contaminated clothing.
- After eye contact : rinse out with plenty of water. If pain Persists, summon eye specialist.
- After inhalation: (particles, dusts):fresh air. Summon doctor.
- After swallowing : make victim drink plenty of water, induce Vomiting. Summon doctor.
-



## SAFETY DATA SHEET

---

**Catalogue No.** : L 10825  
**Product Name** : LEAD BORATE

---

**5. FIRE – FIGHTING MEASURES:** Suitable extinguishing media : .

In adaption to materials stored in the immediate neighbourhood.

Special risks : Development of hazardous combustion gases  
or vapours possible in the event of fire.

Special protective equipment for fire fighting:

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:** Person-related precautionary measures:

Avoid generation of dusts; do not inhale dusts.

Procedures for cleaning/absorption:

Carefully take up dry. Forward for disposal. Clean up effected area.

Avoid generation of dusts.

---

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

Storage : tightly closed . Dry. Storage temperature: no restrictions.

---



# SAFETY DATA SHEET

---

**Catalogue No.** : L 10825  
**Product Name** : LEAD BORATE

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

Respiratory protection : required when dusts are generated.

Eye protection : required

Hand protection : required

Industrial hygiene : Change contaminated clothing.

Wash hands after working with  
substance.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	powder
Colour	:	yellowish
Odour	:	odourless
PH value	:	at 650 g /l H <sub>2</sub> O (25o C) 8.6
Melting temperature	:	not available
Boiling temperature	:	not available
Ignition temperature	:	not available
Flash point	:	not available
Explosion limits lower	:	not available
Upper	:	not available
Relative vapour density	:	not available
Density (20o C)	:	11.0 g/cm <sup>3</sup>
Bulk density	:	3870 kg/m <sup>3</sup>
Solubility in water (25o C)	:	200 g/l

---



## SAFETY DATA SHEET

---

**Catalogue No.** : L 10825  
**Product Name** : LEAD BORATE

---

**10. STABILITY AND REACTIVITY:** Conditions to be avoided : none.

Substance to be avoided : none

Hazardous decomposition products: none

---

**11. TOXICOLOGICAL INFORMATION:** Acute toxicity:

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

Subacute to chronic toxicity: Pregnant woman 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 colic 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).

---

**12. ECOLOGICAL INFORMATION:** Ecotoxic effects: No special data.

Further ecologic data : the following applies to lead compounds in  
General: biological effects: toxic for  
Aquatic organisms (calc. As free lead):



## SAFETY DATA SHEET

---

**Catalogue No.** : L 10825  
**Product Name** : LEAD BORATE

---

Fish: lethal from 1.4 mg/l up; *S.gairdnerii*:  
LC 50 : 0.14 mg/l/96h ; *L. idus* LC50:  
546 mg/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; *M.aeruginosa* 0.45 mg/l; protozoa:  
*E. sulcatum* toxic from 0.02 mg/l up;  
*U.paraduczi* toxic from 0.07 mg/l up;  
Arthropods: *D.magna* LC 50: 2.5mg/l;  
Hazard for drinking water. The following  
Applies to boron compounds in general:  
Biological effects: boric acid developing  
as a result of hydrolysis toxic for aquatic  
organisms; fish: *Gambusia affinis* 96 h.  
LC 50: 5600 mg/l; 24h. LC50: 1800 mg/l;  
Plants: as toxic from 1 mg/l.

Do not allow to enter waters, waste water,  
Or soil.

---

### 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.



## SAFETY DATA SHEET

---

**Catalogue No.** : **L 10825**  
**Product Name** : **LEAD BORATE**

---

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 : 6.1 Number and letter : 62c  
ADR/RID class : 6.1 Number and letter : 62c  
Name of material : 2291 BLEIVERBINDUNG, LOESLICH,  
N.A.G.(BLEIBORAT)  
River transport AND/ADNR: not examine  
Sea transport IMDG :  
IMDG class : 6.1 UN-No.: 2291 packaging group: 111  
EMS : 6.1-04 MFAG : 110,4.3  
Correct technical name : LEAD COMPOUNDS, SOLUABLE, N.O.S.-  
MARINE POLLUTANT

Air transport ICAO-TI and IATA- DGR

ICAO/IATA class : 6.1 UN/ID-No.: 2291 packaging group: 111  
Correct technical name : LEAD COMPOUND, SOLUBLE, N.O.S.

---

### 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.



## SAFETY DATA SHEET

---

**Catalogue No.** : L 10825  
**Product Name** : LEAD BORATE

---

S-phrases : 53-45

Also harmful by inhalation and if Swallowed. Danger of cumulative effects.

Avoid exposure- obtain special Instructions before use. Incase of Accident or if you feel unwell, seek Medical advice immediately(show the label where possible).

EC-No. : 252-594-8

EC label

German regulations:

Water pollution class : 1 (Slightly polluting substance) (own classification)

---

### 16. OTHER INFORMATION

Reason for alteration :

Change in labelling. Change in water pollution class.

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

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

It doesnot represent a guarantee of the properties of the product.

---