

MATERIAL SAFETY DATA SHEET

LEAD BORATE **CAS NO. : 12676-62-9**

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: LEAD BORATE

CAS#: 12676-62-9

C.I. No.: Not available.

Synonym: Not available.

Chemical Name: LEAD BORATE

Chemical Formula: B₂O₄Pb.H₂O

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Chemical Formula: B₂O₄Pb.H₂O

Molar mass: 328.85 g/mol

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical Name (Concentration)

CAS-No. Registration number Classification

Lead (II) boric acid salt (2:1) (<=100%)

Section 3: Hazards Identification

Hazardous ingredients according to Regulation (EC) No 1272/2008.

Reproductive toxicity, Category 1A, H360Df

Acute toxicity, Category 4, Inhalation, H332

Acute toxicity, Category 4, Oral, H302

Specific target organ toxicity -repeated exposure, Category 2, Blood, Central nervous system, Immune system, Kidney, H373

Acute aquatic toxicity, Category 1, H400

Chronic aquatic toxicity, Category 1, H410

Other hazards : None.

Section 4: First Aid Measures

Description of first aid measures

If inhaled

fresh air. If breathing stops: immediately apply artificial respiration, if necessary also oxygen. Call a physician immediately.

In case of skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.

In case of eye contact

rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

immediately make victim drink water (two glasses at most). Consult a physician.

Indication of any immediate medical attention and special treatment needed

No data available.

Most important symptoms and effects, both acute and delayed

The following applies to boron compounds in general: resorption is followed by nausea and vomiting, agitation, spasms, CNS disorders, cardiovascular disorders. 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).

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions.

Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Section 7: Handling and Storage

Precautions for safe handling

Work under hood. Do not inhale substance/mixture.

Hygiene measures:

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Conditions for safe storage, including any incompatibilities

Storage conditions:

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.

Section 8: Exposure Controls/Personal Protection

Control parameters

Exposure controls

Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Personal protective equipment

Eye/face protection:

Use safety glasses.

Skin protection

Hand protection:

full contact:

Glove material:Nitrile rubber

Glove thickness:0.11 mm

Break through time:> 480 min

splash contact:

Glove material:Nitrile rubber

Glove thickness:0.11 mm

Break through time:> 480 min

Respiratory protection:

Required when dusts are generated.

Recommended Filter type: Filter P 3 (acc. to DIN 3181) for solid and liquid particles of toxic and very toxic substances. The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a)Appearance Form	: Powder.
b)Odour	: Odorless.
c)Odour threshold	: No data available.
d)pH	: 8.6
e)Melting point/Freezing point	: No data available.
f)Initial boiling point andboiling range	: No data available.
g)Autoignition temperature	: No data available.

Section 9: Physical and Chemical Properties (Continued)

h)Flammability (solid, gas)	: Not flammable.
i)Upper/lower flammability or explosive limits	: No data available.
j)Flash point [°C]	: No data available.
k)Evaporation rate	: No data available.
l)Vapour pressure	: No data available.
m)Vapour density	: No data available.
n)Relative density,	: No data available.
o)Solubility in water	: No data available.
p)Viscosity	: No data available.
q)Explosive properties	: No data available.
r)Oxidising properties	: No data available.
s)Decomposition temperature	: No data available.
t)Autoignition temperature	: No data available.
u)Molecular Weight	: No data available.

Section 10: Stability and Reactivity Data

Reactivity : No data available.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No data available.

Conditions to avoid : No data available.

Incompatible materials : No data available.

Hazardous decomposition products

Other decomposition products - No data available.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity estimate: 500.1 mg/kg

Section 11: Toxicological Information (Continued)

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

Section 12: Ecological Information

Toxicity: No data available.

Persistence - degradability : No data available.

Bioaccumulative potential : Not established.

Mobility in soil : Not established.

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects :

Discharge into the environment must be avoided.

Section 13: Disposal Considerations

Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : LEAD COMPOUND, SOLUBLE, N.O.S.(LEAD BORATE)

UN N° : 2291

ADR - Class : 6.1

Sea transport (IMDG) [English only]

Proper shipping name : LEAD COMPOUND, SOLUBLE, N.O.S.(LEAD BORATE)

UN N° : 2291

IMO-IMDG - Class or division : 6.1

IMO-IMDG - Packing group : III

Air transport (ICAO-IATA) [English only]

Proper shipping name : LEAD COMPOUND, SOLUBLE, N.O.S.(LEAD BORATE)

UN N° : 2291

IATA - Class or division : 6.1

IATA - Packing group : III

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Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
National legislation: Storage class 6.1B

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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