

SAFETY DATA SHEET

according to regulation (EC) 1907/2006 (REACH)

HBN

Date of last alteration: nov 2014

1.1 Product identifier Boron Nitride Powder

Trade name: **hbn**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Industrial: Parting agent, additive

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/supplier Nitrobor di Claudio Schenato

Via Caravaggio 66 Basiano (MI) Italy

P.iva 10196750961

Tel. 3384370214

1.4 Contact numbers / emergency telephone number

Contact for technical information

+ 39 3384370214

2.1 Classification of the substance or mixture

This product is no hazardous substance acc. to regulation EC 1272 / 2008.

2.2 Label elements

No labelling acc. to regulation EC 1272 / 2008.

2.3 Other hazards

None. No classification as SVHC.

3.1 Substance

Chemical characterisation / to be designated substances: Boron Nitride Powder.

3.2 Mixtures

None. The product is no Mixture.

4.1 Description of first aid measures

After inhalation

Provide person with fresh air. Consult doctor if difficulties of breathing persists.

After skin contact

No special measures necessary. Wash the affected skin with water and soap.

After eye contact

Rinse with plenty of water. When problems occur seek medical advice.

After ingestion

No special measures necessary. Consult doctor and show this safety data sheet if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

None.

4.3 Indication of any immediate medical attention and special treatment needed

None.

5.1 Extinguishing media

Suitable extinguishing media

Product is non-flammable. In case of surrounding fire all measures should match accordingly.

Extinguishing media which must not be used for safety reasons

Not applicable.

5.2 Special hazards arising from the substance or mixture

Not applicable.

5.3 Advice for firefighters

In case of big or small fire all measures should match accordingly.

6.1 Personal precautions, protective equipment and emergency procedures

Do not walk/run when spilled material covers the floor. In case of dust behaving powder use breathing mask FFP2 and safety glasses.

6.2 Environmental precautions

Remove spilled material mechanically. Do not allow product to enter the drainage system or water.

6.3 Methods and material for containment and cleaning up

Remove spilled material mechanically and dispose of properly. Remove slippery residues with all-purpose cleaner.

6.4 Reference to other sections

7.1 Precautions for safe handling

7.1.1 Recommendations

Spilled material causes higher risk of slipping on the floor.

7.1.2 Precautions against fire and explosion

No special measures necessary.

7.1.3 Additional handling information

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No sensitivity to heat or frost.

Advice for storage of incompatible materials

VCI-storage class: LGK 13 – Non-flammable solids.

Additional information concerning storage conditions

Keep container tightly closed.

7.3 Specific end use(s)

Industrial high temperature parting agent and additive for follow-on products.
For additional information see our technical file "product information".

8.1 Control parameters

Product contains no substance with a workplace exposure. Eventually fine dust and total dust values at the workplace could be controlled.

EC

Name CAS-No. Type Longterm

mg/m³

Longterm

ppm

Shortterm

mg/m³

Shortterm

ppm

Source

Not applicable.

GERMANY

Name CAS-No. Type mg/m³ ppm Excess Factor Source

Dust:

alveolar THV 3 2 (II) TRGS 900

inhalable THV 10 2 (II) TRGS 900

8.2 Exposure controls

Technical control equipment

Install adequate aspiration system (dusty powder).

Personal protection equipment

Inhalation protection : Use breathing mask FFP2.

Eye protection : Use safety glasses (frame glasses).

Hand protection : None. Eventually use breathable protection gloves against contamination.

Skin protection : Use skin protection cream.

Body protection : Wear protective suit.

Hygiene : Wash affected skin with water and soap after work.

Environmental Exposure limitation and control

Not applicable.

9.1 Information on basic physical and chemical properties

Appearance: Solid - powder

Colour: White

Odour: None

Safety related data

Lower explosion limit (ethanol): ---

Upper explosion limit (ethanol): ---

Flash point: ---, non-flammable

Ignition temperature: ---, non-flammable

Oxidizing properties: Not oxidizing

pH-Value (20 °C): ---

Melting point / Melting range: None

Boiling point / Boiling range: None – decomposition >2000 °C

Vapour pressure (20 °C): ---

Vapour pressure (50 °C): ---

Density (20 °C): 2,24 g/cm³ (theoretically)

Bulk density (20 °C): 200 - 700 kg/m³

Water solubility / -miscibility: Dispersible – no solution

Vapour density (20 °C): ---

Solvent content: ---

9.2 Other Information

None.

10.1 Reactivity

Very poorly reactive. Reacts slowly with atmospheric oxygen (T >900°C).

10.2 Chemical stability

Stable under recommended storage conditions up to 900°C.

10.3 Possibility of hazardous reactions

If handled in accordance to standard industrial practices and local regulations - none known.

10.4 Conditions to avoid

None.

10.5 Incompatible materials

None.

10.6 Hazardous decomposition products

None.

11.1 Information on toxicological effects

None. At current state of knowledge no damage is expected.

Acute toxicity: None

Irritation: None

Corrosivity: None

Sensitisation: None

Repeated dose toxicity: None
Carcinogenicity: None
Mutagenicity: None
Reproductive toxicity: None
Further information: None

12.1 Toxicity

None.

12.2 Persistence and degradability

No biologically degradability.

12.3 Bioaccumulative potential

No bioaccumulation is expected.

12.4 Mobility in soil

None.

12.5 Results of PBT and vPvB assessment:

Negative.

12.6 Other adverse effects

At current state of knowledge no harm to waste water treatment plants is expected in respect to bacterial toxicity (inhibition of respiration/reproduction).

13.1 Waste treatment methods

No hazardous waste according to the directive on the List of Waste Materials (AVV). Waste disposal in accordance with the local regulations.

Recommendation

Clarify exact waste code with the local disposal authority.

European Waste List

08 02 01: Waste containing powders.

Empty uncleaned packaging

Used empty packaging can be disposed. No harmful residues.

Cleaned packaging

Can be disposed. To clean - rinse with water.

Waste Code 15 01 01: Paper and cardboard packaging.

Transport by road/ Transport by rail (ADR/RID)

UN number: No Dangerous Good

Proper shipping name:

Class:

Packing group:

Environmentally dangerous:

Label(s):

Marking:

Transport by sea-going ships (IMDG-Code)

UN number: No Dangerous Good

Proper shipping name:

Class:

Packing group:

Environmentally dangerous:

Label(s):

EmS:

Marking:

Transport by air ICAO-TI/IATA-DGR

UN number: No Dangerous Good

Proper shipping name:

Class:

Packing group:

Environmentally dangerous:

Label(s):

Packing instructions/markings:

PAX (passenger aircraft):

CAO (cargo aircraft only):

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EC regulations

No classification necessary acc. to regulation (EC) no. 67/548 and 1999/45.

Restrictions on the marketing of solvent-containing inks and lacquers (ChemVOCFarbV): Not applicable.

Detergents regulation (EC) no. 648/2004: Not applicable.

Restrictions on the emissions of volatile organic compound (regulation 1999/13/EC (VOC)): Applicable.

Regulation 96/82/EC (Seveso II directive): Not applicable.

National regulations (Germany)

Water hazard class: Not hazardous for water (VwVwS annex 3).

TA-Luft (Air): 5.2

Incident Ordinance: Not applicable.

Employment limitations: -

Restrictions on use: Not applicable.

Others: -

15.2 Chemical safety assessment

Acc. to all risk evaluations in section 2., 3., 11. and 12. (no SVHC) and legal regulations, no chemical safety assessment necessary.

H- and P-phrases

Training advice

No product-specific training in connection with safety measures necessary.

Recommended restrictions on use

In case of uses, deviating from the uses mentioned in section 1.2, the manufacturer has to be asked concerning special safety measures.