

SAFETY DATA SHEET

BORIC ACID (SOLID)

mbac100

1. Identification of the substance/preparation and of the company/undertaking

Product name : BORIC ACID (SOLID) **Supplier** : Brenntag UK and Ireland
 Albion House
 Rawdon Park
 Green Lane
 Yeadon
 Leeds
 LS19 7XX

Chemical product name : ORTHOBORIC ACID

Synonyms : Boracic acid, Orthoboric acid,
 Optibor SP

EMERGENCY ONLY TELEPHONE NUMBER : (N.C.E.C. CULHAM) 01865 407333 **Telephone No.** : (0113) 3879200

Fax No. : (0113) 3879280

Molecular Mass : 61.8

2. Composition/information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) ORTHOBORIC ACID	10043-35-3	95-100	233-139-2	-	-

* Occupational Exposure Limit(s), if available, are listed in Section 8

CAS No. 10043-35-3

3. Hazards identification

4. First-aid measures

First-Aid measures

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
- Skin contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.
- Eye Contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention.

5. Fire-fighting measures

Extinguishing Media

- Suitable** : SMALL FIRE: Use DRY chemical powder.
 LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special fire-fighting procedures : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Protection of fire-fighters : Be sure to use an approved/certified respirator or equivalent.

6. Accidental release measures

Personal Precautions : Splash goggles. Protective overalls/suit. Boots. Gloves. Select appropriate protective clothing for the size of the spillage.

Environmental precautions and cleanup methods : Use a non-sparking shovel to put the material into a suitable waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
 : Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

7. Handling and storage

- Handling** : Keep away from heat. Keep away from sources of ignition. Empty containers may still contain significant residual amounts of the product. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as acids.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended use** : Use original container.

8. Exposure controls/personal protection

- Engineering measures** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Hygiene measures** : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name

Workplace Exposure Limits

1) Nuisance dust.

EH40 (United Kingdom (UK)).

OES: 10 mg/m³ Period: 8 hour(s). Form: Total inhalable dust.

OES: 4 mg/m³ Period: 8 hour(s). Form: Respirable dust

Personal protective equipment

- Respiratory system** : Dust mask if conditions are dusty.
- Skin and body** : Wear: PVC or other impermeable suit. PVC or rubber boots.
- Hands** : PVC or rubber gloves.
- Eyes** : Chemical goggles.

9. Physical and chemical properties

- Physical state** : Solid.
- Colour** : White.
- Odour** : Odourless.
- Melting point** : 171°C (339.8°F)
- Density** : 1.51 g/cm³
- Solubility** : Partially soluble in cold water. (4.7 g/l in water at 20°C)
- Octanol/water partition coefficient** : The product is more soluble in water; log(oil/water) = -0.757
- pH** : 5.1 [Acidic.]
- Flash point** : Not available.

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : Keep away from heat.
- Materials to avoid** : Strong reducing agents, strong acids, metallic salts.

11. Toxicological information

Local effects

- Skin irritation** : Powder may irritate skin.
- Eye irritation** : Particles in the eyes may cause irritation and smarting.

- Acute toxicity** : Acute oral toxicity (LD50): 3500 to 4100 mg/kg [Rat].
Inhalation: dust in high concentrations may irritate the respiratory system.
Ingestion: May cause discomfort if swallowed.

12. Ecological information

- Mobility** : Soluble in water.
- Ecotoxicity** : Ecotoxicity in water:
(EC50): 133 mg/l, 48 hours [Daphnia].

13. Disposal considerations

Methods of disposal ; Waste of residues ; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Classification : Not applicable.

14. Transport information

International transport regulations

UN : UN number Not regulated.

UN : Proper shipping name -

ADR/RID : Class -

IMDG : Proper shipping name -

IATA : Proper shipping name -

IATA : Additional Information -

15. Regulatory information

EU Regulations

Risk Phrases : This product is not classified according to the EU regulations.

Product Use : Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.
- Consumer applications.

16. Other information

HISTORY

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Notice to Reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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