

MATERIAL SAFETY DATA SHEET (MSDS)
BORIC ACID

SECTION 1: **Company Information.**

Material : **BORIC ACID (Grade -Technical / CP / SQ / AR).**

Identifier : ORGANIC INDUSTRIES PRIVATE LIMITED.

Manufacturers : ORGANIC INDUSTRIES PRIVATE LIMITED,

Address : PLOT NO. S-163, Behind BASF.
G.I.D.C. DAHEJ, TALUKA –VAGHRA
Gujarat. Pin: 392130.

Emergency Contact Tel. Nos.: 09227764848/09228023281

Nos. : Fax No. : 02641-252021

E-Mail : narendra@organicgroup.co.in

SECTION 2: **Composition/Information of ingredients.**

Chemical Name: BORIC ACID.

Chemical Formula: H_3BO_3

Chemical Identity: Inorganic.

Trade Name & Synonyms: Boric Acid (Grade : Technical ,IP, SQ, AR).

Product Use: Ceramics, Pharmaceutical, Electro-Plating & Chemical Manufacturing.

C.A.S. No: 10043-35-3.

SECTION 3: **Hazardous Ingredients Material.**

Hazardous Ingredients: Boric Acid contains 56% Boric Oxide which is non-hazardous.

SECTION 4: **FIRST AID MEASURES**

Inhalation: If nose or throat irritation is observed, shift person
to fresh air.

Eye contact: Use eye wash fountain to cleanse eye, and if required,
seek medical attention.

Skin contact: It is not irritant. Wash skin with water.
If larger amounts are swallowed, give enough water to
drink and seek medical attention.

SECTION 5: **FIRE FIGHTING MEASURES**

Flammability: Not flammable, combustible or explosive.
Self extinguishing, acts as Flame Retardant.
Any fire extinguishing media may be used in nearby fires.

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SECTION 6: ACCIDENTAL RELEASE MEASURES.

Air, containing boric acid dust, before emission into atmosphere, should be subjected to purification to achieve adopted maximum permissible concentration. Sewage from wash-outs and cleaning of production areas should be gathered into containers and sent to a neutralization station or returned into the technological process. It is necessary to isolate sources of potable water from sewage containing water-soluble boron compounds.

SECTION 7: HANDLING & STORAGE

Store at ambient temperature and atmospheric pressure.
No special handling precautions are required but dry indoor storage is recommended. Bags should be handled on first in first out basis.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION.

While handling boric acid, one should use the following personal protective means :

- dust-fighting respirators of any type.
- protective gloves and goggles.
- special protective clothes and shoes.

It is not allowed to take food in production areas.

There is no need to follow any special rules of personal hygiene.

SECTION 9: PHYSICAL DATA FOR MATERIAL:

Physical State:	Solid / White in colour
Odour and appearance:	Odourless – Powder / Granular.
Specific Gravity:	1.51 @ 20 ^o c.
Vapour Pressure (mm):	Negligible @ 20 ^o c.
Solubility in water:	4.95% @ 20 ^o c.
pH	5.1 (1% sol. @ 20 ^o c.)
Density:	Granular: 900 kg/m ³ (+/- 100). Powder: 600 kg/m ³ (+/- 100).

SECTION 10: STABILITY & REACTIVITY.

Stable Product.

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SECTION 11: TOXICOLOGICAL PROPERTIES OF MATERIAL

ROUTE OF ENTRY:

Skin contact : Non-irritant.
Skin Absorption : Not absorbed through intact skin.
Eye contact : Produces mild eye irritation without any adverse effect.
Inhalation Acute : Very low acute inhalation toxicity.
Ingestion : Low acute oral toxicity. LD - 50
(oral, rat) - 5140 mg/kg.

SECTION 12 : ECOLOGICAL INFORMATION

Technological stages of borax granulating, grinding and packing may be sources of atmospheric pollution. Potable water is one of the basic sources of borax penetration into an organism, that is why sewage, containing water-soluble boron, is the greatest hazard for environment. In order to prevent hazardous effect of borax on environment, there should be at least 300 meters wide protective sanitary zone.

SECTION 13: METHOD OF WASTE DISPOSAL

In case the material is released or spilled during handling or transportation, it is necessary to gather it in any dry container and send for utilization to a specified site. Used package (paper bags, single-use containers, polyethylene inserts) should be burnt.

SECTION 14: TRANSPORTATION INFORMATION

Boric acid transportation from the site of its manufacturing to the site of its storage and processing should be carried out in the original package of the supplier by any types of transport according to existing regulations. Transportation of boric acid from one stage of its production to another one does not require any special precautions.

SECTION 15: REGULATORY INFORMATION

Data not available.

SECTION 16: OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Organic Industries Limited shall not be held liable for any damage, resulting from handling or from contact.