



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : B 11729
Product Name : BORIC ACID

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 : 10043-35-3
EC-Index No. : -----
Molar Mass : ---
EC-No. : 233-139-2
Molecular Formula : CCaO_3

3. HAZARDS INDEX

According to the evaluative data available, a classification according to categories of danger as specified in Directive 67/548/EEC and laid down in the legislation of the country concerned is not required.



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4. FIRST AID MEASURES

After inhalation : Fresh air.

After eye contact : Rinse out with plenty of water with the eyelid held wide open.
Summon eye specialist if necessary.

After skin contact : Wash off with water.

After swallowing : Make victim drink plenty of water, induce vomiting,
summon doctor if feeling unwell.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials stored in the
immediateneighbourhood.

Special risks : Non - combustible. Ambient fire may liberate hazardous vapours.

Special protective equipment for fire fighting : Do not stay in dangerous zone without self-
contained breathing apparatus.

Other information : Prevent fire-fighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning/absorption : Take up dry. Forward for disposal.

Clean up affected area.



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7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : Tightly closed. No further requirements.

At +15° C to +25° C

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

: Respiratory protection : Required when dusts are generated.

Eye protection : Required

Hand protection : Required

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene :

Change contaminated clothing. Wash hands after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid

Colour : Colourless

Odour : Odourless

pH value at 33 gm/lt. H₂O (20° C) : 3.8 - 4.8

Melting temperature : 180° C



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Boiling temperature : Not available
Ignition temperature : Not available
Flash Point : Not available
Explosion limit lower : Not available
 upper : Not available
Relative vapour density : Not available
Density (20° C) : 1.44 gm/cm³
Bulk density : ~400 - 600 kg/m³
Solubility in Water (21° C) : 50 gm/lt.
 Water (100° C) : 390 gm/lt.
Thermal decomposition : Above melting point

10. STABILITY & REACTIVITY

Conditions to be avoided : No information available
Substances to be avoided : No information available
Hazardous decomposition products : No information available

11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD₅₀ (oral, rat) : 2660 mg/kg
Subacute to chronic toxicity : NTP evaluation for carcinogenicity : negative in animals.



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Further toxicological information :

After eye contact : irritations.

After swallowing : Possible symptoms; nausea, vomiting, diarrhoea.

After absorption of large quantities : agitation, spasma, tiredness, ataxia (impaired locomotor co-ordination), drop in temperature.

12. ECOLOGICAL INFORMATION

Ecotoxic effects : Biological effects : Toxic for aquatic organisms.

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.LC₅₀ : 5600 mg/lt.; 24 h.LC₅₀: 1800 mg/lt.; plants : as toxic from 1mg/lt.

Further ecologic data : No ecological problems are to be expected when the product is handled and used with due care and attention.

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 & regulations.

We recommend that you contact either the authorities in charge/approved waste disposal companies which will advise you on how to dispose of special waste.



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Disposal in compliance with official regulations. Handle contaminated packaging 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 : Not subject to transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : ---

R-phrases : ---

S-phrases : ---

Water pollution class : 1 (slightly polluting substance)

16. OTHER INFORMATION

Reason for alteration

Change in product name.

General update.

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

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

It does not represent a guarantee of the properties of the product.
