

BIOSTAIN
Ready Reagents

CERTIFICATE OF CONFORMITY

CERTCONF2010

This document certifies that the following product and specific batch has been manufactured to and complies with the company's standard Specification.

It further certifies that the batch has been tested by a diagnostic laboratory and complies with the minimum specification for this product.

PRODUCT CODE	GPC8041		
DESCRIPTION	Boric Acid GPC		
BATCH NO	Allocated at time of production		
Manufacture Date	N/A	Expiry Date	5 Year Shelf Life

SPECIFICATION	Boric Acid H_3BO_3	99.5% min
	Boric Oxide B_2O_3	56.0% min
	Sulphate SO_4	600ppm max
	Chloride Cl	500ppm max
	Iron Oxide Fe_2O_3	4ppm max

TESTING PROTOCOL <small>(WHERE APPLICABLE)</small>	Supplied against supplier's certificate of analysis/conformity
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We confirm that this batch has been tested in our Laboratory and has been found to perform to our minimum standards and that sample will be retained for the life of the product

Peter Keenan
Commercial Director

Disclaimer

The information contained herein is, to the best of our knowledge and belief, accurate. However, since conditions of handling and use are beyond our control, we do not guarantee any results, and we are not liable for any damage incurred by following these suggestions. Nothing contained herein is to be construed as a recommendation for use in violation of any patent or applicable laws or regulations.



1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: Boric Acid

SYNONYMS:

PRODUCT CODE: GPC8041

COMPANY: BIOSTAIN READY REAGENTS LTD
UNIT 2C, ARROW TRADING ESTATE,
AUDENSHAW, MANCHESTER, M34 5LR
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2. COMPOSITION

Name	Cas No	EINECS No	Content
Boric Acid	10043-35-3	233-139-2	>99%

3. HAZARD IDENTIFICATION

Main Hazards

Although this product is not subject to reporting requirements for hazardous products, we recommend compliance with the safety recommendations

HEALTH EFFECTS

Inhalation: Dust is irritating to respiratory tract.

4. FIRST AID MEASURES

If the patient is likely to become unconscious, place and transport in stable sideways position. Poisonous symptoms can first be observed after several hours, therefore medical observation for at least 48 hours if necessary.

Eyes: In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.

Skin: In case of contact with skin wash off immediately with soap and water.

Ingestion: Summon a doctor immediately.

5. FIRE FIGHTING MEASURES

Extinguishing Media: The product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Unsuitable Extinguishing Media: None

Special Hazards of Product: In case of combustion evolution of dangerous gases possible.

Protective Equipment for Fire Fighting: Use self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Remove persons to safety.

Cleaning Up Spillage: Dispose of absorbed material in accordance with regulations.

7. HANDLING & STORAGE

Handling: Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid dust formation.

Storage: No special measures necessary.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT NAME	Exposure Limit Values
Boric Acid	None

VENTILATION: In case of insufficient ventilation or long term effect use breathing apparatus.

RESPIRATORS: Where a cartridge/canister respirator is suitable use Type P (CEN 143).

PROTECTIVE GLOVES: Protective gloves (EN 374); Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any cause for its specific work station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

EYE PROTECTION : Tightly fitting safety glasses (EN 166)

OTHER PROTECTION: Use engineering controls to reduce air contamination to permissible exposure level. Wear personal protective equipment appropriate to the quantity of material handled.

HYGIENIC WORK PRACTICES: Wash hands before breaks and after work. Remove soiled or soaked clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White solid

ODOUR/TASTE: Odourless

BOILING POINT (°C, interval): 300°C

MELT/FREEZ. POINT (°C, interval): 169°C

DENSITY/SPECIFIC GRAVITY (g/ml): 1.435 g/cm³ at 20°C

SOLUBILITY: 300 g/l at 20°C

FLASHPOINT (°C):

AUTOIGNITION:

EXPLOSION LIMIT - LOWER (%):

pH Value: approx 4 @ 20°C 30 g/l

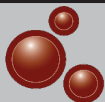
10. STABILITY AND REACTIVITY

STABILITY : Stable under normal conditions of use.

CONDITIONS TO AVOID: No hazardous reactions known.

HAZARDOUS

DECOMP. PRODUCTS : No hazardous decomposition products known



11. TOXICOLOGICAL INFORMATION

ALL ROUTES:
HEALTH HAZARDS:
INHALATION : Dust is severely irritating to the respiratory tract. Effect may vary from irritation of the nasal mucous membrane to severe lung irritation
Acute Oral Toxicity: Rat 2660 mg/kg.
Acute Dermal Toxicity: Rabbit >2000 mg/kg
EYES : Rabbit eye; slight irritant effect – does not require labelling Draize Method
CARCINOGENIC EFFECTS: No indications of carcinogenic effects are available from long term trials.

12. ECOLOGICAL INFORMATION

Biodegradability Inorganic product cannot be eliminated from the water by biological purification processes
Fish Toxicity S. Gairdneri 860 mg/l 24h
Daphnia Toxicity Daphnia Magna 658 – 875 g/cm³ 48h
Bacteria Toxicity Bacteriostat
General Information/ Toxicity Product should not reach open water ways

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose of as hazardous waste.
Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORT INFORMATION

No hazardous material as defined by the transport manager.

PROPER SHIPPING NAME I: Boric Acid
ROAD TRANSPORT NOTES:
UN No. SEA :
IMDG CLASS :
IMDG PAGE No. :
IMDG PACK GR. :
IMDG EMS NO:
IMDG - MFAG TABLE NO:
MARINE POLLUTANT:
UN No. N/R

15. REGULATORY INFORMATION

LABEL FOR SUPPLY:



The product does not require a hazard warning label in accordance with EC directives/the relevant national laws.

RISK PHRASES :

SAFETY PHRASES:

UK REGULATORY REFERENCES: Control of Substances Hazardous to Health Regulations (COSHH) 1999 SI1999/437 and COSHH Essentials: Easy steps to control chemicals – Control of Substances Hazardous to Health Regulations HSG193

Boric acid, crude natural, containing not more than 85% of HB3 03 calculated on the dry weight.

16. OTHER INFORMATION

INFORMATION SOURCES: This product has been classified in accordance with CHIP3 regulations.

REVISION COMMENTS : Edition 01
ISSUED BY : PJK
SDS No.: HBO 2010
DATE : 13/08/10

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of Biostain RR's knowledge correct at the time of publication. Customers should always satisfy themselves that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.