Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing 10.04.2025 version number 8 (replaces version 7) Revision: 10.04.2025

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

***1.1 Product identifier**
***Trade name: BORIC ACID 4% (W/V) WITH INDICATOR (BROMOCRESOL GREEN AND METHYL RED)**

***Article number:** 11064976
***Registration number**
A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
***UFI:** Y803-H0YN-A000-6C8Q
***1.2 Relevant identified uses of the substance or mixture and uses advised against**
***Product category** For experiments, research, or testing purposes only. Prohibited of use for other purposes.
***Application of the substance / the mixture** Laboratory Chemicals

***1.3 Details of the supplier of the safety data sheet**
***Manufacturer/Supplier:** See Below
***Manufacturer:**
Reagecon Diagnostics Ltd.
Shannon Free Zone,
Shannon,
Co. Clare,
Ireland.
Tel +353 61 472622
Fax +353 61 472642
***Supplier:**
BÜCHI Labortechnik AG
Meierseggstrasse 40
CH - 9230 Flawil
Telephone: +41 71 394 63 63
FAX: +41 71 394 65 65
Email: buchi@buchi.com
Internet: www.buchi.com

***Further information obtainable by contacting:** sds@reagecon.ie
***1.4 Emergency telephone number:**
National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC
For Ireland call +(353)-19014670
For Outside Ireland call +1 703-741-5970 / 1-800-424-9300 CCN849800

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SECTION 2: Hazards identification

***2.1 Classification of the substance or mixture**
***Classification according to Regulation (EC) No 1272/2008**

GHS08 health hazard

Repr. 1B H360FD May damage fertility. May damage the unborn child.

***2.2 Label elements**
***Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing 10.04.2025 version number 8 (replaces version 7) Revision: 10.04.2025

Trade name: BORIC ACID 4% (W/V) WITH INDICATOR (BROMOCRESOL GREEN AND METHYL RED)

(Contd. of page 1)

***Hazard pictograms**

GHS08

***Signal word** Danger

***Hazard-determining components of labelling:**
boric acid

***Hazard statements**
H360FD May damage fertility. May damage the unborn child.

***Precautionary statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

***2.3 Other hazards**

***Results of PBT and vPvB assessment**

***PBT:** Not applicable.

***vPvB:** Not applicable.

*
SECTION 3: Composition/information on ingredients

***3.2 Mixtures**

***Description:** Mixture of substances listed below with nonhazardous additions.

***Dangerous components:**

CAS: 10043-35-3 EINECS: 233-139-2	boric acid	Repr. 1B, H360FD	2.5-10%

***SVHC**

CAS: 10043-35-3	boric acid

***Additional information:** For the wording of the listed hazard phrases refer to section 16.

*
SECTION 4: First aid measures

***4.1 Description of first aid measures**

***After inhalation:**
Provide fresh air, warmth and rest. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Obtain medical attention if any discomfort continues.

***After skin contact:** Generally the product does not irritate the skin.

***After eye contact:**
Promptly wash eyes with plenty of water for up to 15 minutes. Open eyes wide apart and rinse well to remove any contact lenses. Do not remove contact lenses by hand. Continue to rinse. Get medical attention if symptoms persist.

***After swallowing:** If symptoms persist consult doctor.

***4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

***4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

(Contd. on page 3)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing 10.04.2025 *version number 8 (replaces version 7)* *Revision: 10.04.2025*

Trade name: BORIC ACID 4% (W/V) WITH INDICATOR (BROMOCRESOL GREEN AND METHYL RED)

(Contd. of page 2)

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SECTION 5: Firefighting measures

***5.1 Extinguishing media**
***Suitable extinguishing agents:**
Indications shall be given whether any extinguishing media are inappropriate for a particular situation involving the substance or mixture
Use fire extinguishing methods suitable to surrounding conditions.
***5.2 Special hazards arising from the substance or mixture** No further relevant information available.
***5.3 Advice for firefighters**
***Protective equipment:**
Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers

*
SECTION 6: Accidental release measures

***6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment as described in Section 8 below. Keep unprotected persons away.
***6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
***6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
***6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

*
SECTION 7: Handling and storage

***7.1 Precautions for safe handling**
Keep receptacles tightly sealed.
No special precautions are necessary if used correctly.
***Information about fire - and explosion protection:** No special measures required.

***7.2 Conditions for safe storage, including any incompatibilities**
***Storage:**
***Requirements to be met by storerooms and receptacles:** No special requirements.
***Information about storage in one common storage facility:** Not required.
***Further information about storage conditions:** None.
***7.3 Specific end use(s)** No further relevant information available.

*
SECTION 8: Exposure controls/personal protection

***8.1 Control parameters**

***Ingredients with limit values that require monitoring at the workplace:**	
CAS: 10043-35-3 boric acid	
OEL (Ireland)	Long-term value: 2 mg/m³ Repr. 1B
TLV (USA)	Short-term value: 6* mg/m³ Long-term value: 2* mg/m³ *as inhalable fraction, A4

***Additional information:** The lists valid during the making were used as basis.

(Contd. on page 4)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing 10.04.2025 version number 8 (replaces version 7) Revision: 10.04.2025

Trade name: BORIC ACID 4% (W/V) WITH INDICATOR (BROMOCRESOL GREEN AND METHYL RED)

(Contd. of page 3)

***8.2 Exposure controls**
***Appropriate engineering controls** No further data; see section 7.
***Individual protection measures, such as personal protective equipment**
***General protective and hygienic measures:** Wash hands before breaks and at the end of work.
***Respiratory protection:**
Where risk assessment shows air-purifying respirators are appropriate use a respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as back up to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
***Hand protection**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Always ensure that gloves are inspected before use.
Selection of protective gloves must include consideration of the penetration times along with rates of diffusion and degradation. The selected glove should comply with the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.
***Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
***Penetration time of glove material**
In the absence of data above, the exact break through time has to be sourced from the manufacturer of the protective gloves and has to be observed.
***Eye/face protection**

Goggles recommended during refilling: Use equipment for eye protection tested and approved under appropriate government standards
such as NIOSH (US) or EN 166(EU)

*
SECTION 9: Physical and chemical properties

***9.1 Information on basic physical and chemical properties**
***General Information**

***Physical state**	Liquid
***Colour:**	According to product specification
***Odour:**	Characteristic

(Contd. on page 5)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing 10.04.2025 version number 8 (replaces version 7) Revision: 10.04.2025

Trade name: BORIC ACID 4% (W/V) WITH INDICATOR (BROMOCRESOL GREEN AND METHYL RED)

(Contd. of page 4)

*Odour threshold:	Not determined.
*Melting point/freezing point:	Undetermined.
*Boiling point or initial boiling point and boiling range	100 °C
*Flammability	Not applicable.
*Lower and upper explosion limit	
*Lower:	Not determined.
*Upper:	Not determined.
*Flash point:	Not applicable.
*Decomposition temperature:	Not determined.
*pH	Not determined.
*Viscosity:	
*Kinematic viscosity	Not determined.
*Dynamic:	Not determined.
*Solubility	
*water:	Not miscible or difficult to mix.
*Partition coefficient n-octanol/water (log value)	Not determined.
*Vapour pressure at 20 °C:	23 hPa
*Density and/or relative density	
*Density:	Not determined.
*Relative density	Not determined.
*Vapour density	Not determined.
*Particle characteristics	Not applicable.

*9.2 Other information	
*Appearance:	
*Form:	Liquid
*Important information on protection of health and environment, and on safety.	
*Ignition temperature:	Product is not selfigniting.
*Explosive properties:	Product does not present an explosion hazard.
*Solvent content:	
*Organic solvents:	0.0 %
*Change in condition	
*Evaporation rate	Not determined.

*Information with regard to physical hazard classes	
*Explosives	Void
*Flammable gases	Void
*Aerosols	Void
*Oxidising gases	Void
*Gases under pressure	Void
*Flammable liquids	Void
*Flammable solids	Void
*Self-reactive substances and mixtures	Void
*Pyrophoric liquids	Void
*Pyrophoric solids	Void
*Self-heating substances and mixtures	Void
*Substances and mixtures, which emit flammable gases in contact with water	Void
*Oxidising liquids	Void
*Oxidising solids	Void
*Organic peroxides	Void
*Corrosive to metals	Void

(Contd. on page 6)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing 10.04.2025 version number 8 (replaces version 7) Revision: 10.04.2025

Trade name: BORIC ACID 4% (W/V) WITH INDICATOR (BROMOCRESOL GREEN AND METHYL RED)

(Contd. of page 5)

*Desensitised explosives	Void

SECTION 10: Stability and reactivity

*10.1 Reactivity No further relevant information available.
*10.2 Chemical stability
*Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
*10.3 Possibility of hazardous reactions No dangerous reactions known.
*10.4 Conditions to avoid No further relevant information available.
*10.5 Incompatible materials: No further relevant information available.
*10.6 Hazardous decomposition products: No dangerous decomposition products known.

*
SECTION 11: Toxicological information

*11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
*Acute toxicity Based on available data, the classification criteria are not met.
*Primary irritant effect:
*Skin corrosion/irritation Based on available data, the classification criteria are not met.
*Serious eye damage/irritation Based on available data, the classification criteria are not met.
*Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
*Germ cell mutagenicity Based on available data, the classification criteria are not met.
*Carcinogenicity Based on available data, the classification criteria are not met.
*Reproductive toxicity May damage fertility. May damage the unborn child.
*STOT-single exposure Based on available data, the classification criteria are not met.
*STOT-repeated exposure Based on available data, the classification criteria are not met.
*Aspiration hazard Based on available data, the classification criteria are not met.
*11.2 Information on other hazards

*Endocrine disrupting properties
None of the ingredients is listed.

*
SECTION 12: Ecological information

*12.1 Toxicity
*Aquatic toxicity: No further relevant information available.
*12.2 Persistence and degradability No further relevant information available.
*12.3 Bioaccumulative potential No further relevant information available.
*12.4 Mobility in soil No further relevant information available.
*12.5 Results of PBT and vPvB assessment
*PBT: Not applicable.
*vPvB: Not applicable.
*12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
*12.7 Other adverse effects
*Additional ecological information:
*General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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(Contd. on page 7)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing 10.04.2025 version number 8 (replaces version 7) Revision: 10.04.2025

Trade name: BORIC ACID 4% (W/V) WITH INDICATOR (BROMOCRESOL GREEN AND METHYL RED)

(Contd. of page 6)

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SECTION 13: Disposal considerations

***13.1 Waste treatment methods**
***Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

***European waste catalogue**	
HP10	Toxic for reproduction

***Uncleaned packaging:**
***Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

***14.1 UN number or ID number**	
***ADR, IMDG, IATA**	Void
***14.2 UN proper shipping name**	
***ADR, IMDG, IATA**	Void
***14.3 Transport hazard class(es)**	
***ADR, IMDG, IATA**	
***Class**	Void
***14.4 Packing group**	
***ADR, IMDG, IATA**	Void
***14.5 Environmental hazards:**	Not applicable.
***14.6 Special precautions for user**	Not applicable.
***14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
***UN "Model Regulation":**	Void

*
SECTION 15: Regulatory information

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

***Directive 2012/18/EU**
***Named dangerous substances - ANNEX I** None of the ingredients is listed.
***REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 30

***DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

***REGULATION (EU) 2019/1148**

***Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.

***Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.

***Regulation (EC) No 273/2004 on drug precursors**
None of the ingredients is listed.

(Contd. on page 8)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing 10.04.2025 *version number 8 (replaces version 7)* *Revision: 10.04.2025*

Trade name: BORIC ACID 4% (W/V) WITH INDICATOR (BROMOCRESOL GREEN AND METHYL RED)

(Contd. of page 7)

***Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

***National regulations:**

***Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

***Other regulations, limitations and prohibitive regulations**

***Substances of very high concern (SVHC) according to REACH, Article 57**

CAS: 10043-35-3	boric acid

***15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

***Relevant Phrases:**
H360FD May damage fertility. May damage the unborn child.

***Department issuing SDS:** Health and Safety*
***Contact:** sds@reagecon.ie*
***Date of previous version:** 20.12.2024*
***Version number of previous version:** 7*
***Abbreviations and acronyms:**
REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Repr. 1B: Reproductive toxicity – Category 1B
***NO**