

## 1 Identification

**\*Product identifier**

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

**\*Article number:** 11064976

**\*Application of the substance / the mixture** Laboratory chemicals

**\*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  
Meierseggsstrasse 40  
CH - 9230 Flawil  
Telephone: +41 71 394 63 63  
FAX: +41 71 394 65 65  
Email: buchi@buchi.com  
Internet: www.buchi.com

**\*Information department:** sds@reagecon.ie

**\*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

## 2 Hazard identification

**\*Classification of the substance or mixture**



GHS08 Health hazard

Reproductive Toxicity - Category 1B H360 May damage fertility or the unborn child.

**\*Label elements**

**\*GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**\*Hazard pictograms**



GHS08

**\*Signal word** Danger

**\*Hazard-determining components of labeling:**

boric acid



# Safety Data Sheet

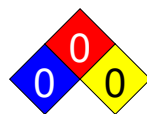
according to HPR, Schedule 1

Printing date 04/10/2025

Reviewed on 04/10/2025

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

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**\*Hazard statements***May damage fertility or the unborn child.***\*Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Wear protective gloves/protective clothing/eye protection/face protection.**IF exposed or concerned: Get medical advice/attention.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.***\*Classification system:****\*NFPA ratings (scale 0-4)**

Health = 0

Fire = 0

Reactivity = 0

## 3 Composition/Information on ingredients

**\*Chemical characterization: Mixtures****\*Description:** Mixture of the substances listed below with nonhazardous additions.**\*Dangerous components:**

CAS: 10043-35-3 | boric acid

1-5% w/w \*

\* Actual concentration ranges are withheld as a trade secret.

## 4 First-aid measures

**\*Description of first aid measures****\*After inhalation:** Supply fresh air; consult doctor in case of complaints.**\*After skin contact:** Generally the product does not irritate the skin.**\*After eye contact:** Rinse opened eye for several minutes under running water.**\*After swallowing:** If symptoms persist consult doctor.**\*Information for doctor:****\*Most important symptoms and effects, both acute and delayed** No further relevant information available.**\*Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Fire-fighting measures

**\*Extinguishing media****\*Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**\*Special hazards arising from the substance or mixture** No further relevant information available.**\*Advice for firefighters****\*Protective equipment:** No special measures required.

## 6 Accidental release measures

**\*Personal precautions, protective equipment and emergency procedures***Wear protective equipment. Keep unprotected persons away.***\*Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**\*Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*

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**\*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.

## 7 Handling and storage

**\*Handling:**

**\*Precautions for safe handling**

Keep receptacles tightly sealed.

No special precautions are necessary if used correctly.

**\*Information about protection against explosions and fires:** No special measures required.

**\*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.

**\*Specific end use(s)** No further relevant information available.

## 8 Exposure controls/ Personal protection

**\*Additional information about design of technical systems:** No further data; see section 7.

**\*Control parameters**

**\*Components with limit values that require monitoring at the workplace:**

**CAS: 10043-35-3 boric acid**

EL STEL: 6 mg/m<sup>3</sup>

TWA: 2 mg/m<sup>3</sup>

EV STEL: 6 mg/m<sup>3</sup>

TWA: 2 mg/m<sup>3</sup>

inorganic, inhalable

**\*Additional information:** The lists that were valid during the creation were used as basis.

**\*Exposure controls**

**\*Personal protective equipment:**

**\*General protective and hygienic measures:** Wash hands before breaks and at the end of work.

**\*Breathing equipment:** Suitable respiratory protective device recommended.

**\*Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**\*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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

**\*Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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\*Eye protection:

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Goggles recommended during refilling.

## 9 Physical and chemical properties

\*Information on basic physical and chemical properties

\*General Information

\*Appearance:

<b>Form:</b>	Fluid
<b>Color:</b>	According to product specification
<b>*Odor:</b>	Characteristic
<b>*Odor threshold:</b>	Not determined.

\*pH-value: Not determined.

\*Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	100 °C

\*Flash point: Not applicable.

\*Flammability: Not applicable.

\*Decomposition temperature: Not determined.

\*Ignition temperature: Product is not selfigniting.

\*Danger of explosion: Product does not present an explosion hazard.

\*Explosion limits:

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

\*Vapor pressure at 20 °C: 23 hPa

\*Density: Not determined.

\*Relative density: Not determined.

\*Vapor density: Not determined.

\*Evaporation rate: Not determined.

\*Solubility in / Miscibility with

<b>Water:</b>	Not miscible or difficult to mix.
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\*Partition coefficient (n-octanol/water): Not determined.

\*Viscosity:

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.

\*Solvent content:

<b>Organic solvents:</b>	0.0 %
<b>Water:</b>	96.0 %

<b>Solids content:</b>	4.0 %
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\*Other information: No further relevant information available.

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### 10 Stability and reactivity

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

### 11 Toxicological information

- \***Information on toxicological effects**
- \***Acute toxicity:**
- \***Primary irritant effect:**
- \***on the skin:** No irritant effect.
- \***on the eye:** No irritating effect.
- \***Sensitization:** No sensitizing effects known.
- \***Additional toxicological information:**
- \***Carcinogenic categories**

#### \***IARC (International Agency for Research on Cancer)**

CAS: 64-17-5	ethyl alcohol	1
CAS: 493-52-7	Methyl Red	3

#### \***NTP (National Toxicology Program)**

None of the ingredients is listed.

### 12 Ecological information

- \***Toxicity**
- \***Aquatic toxicity:** No further relevant information available.
- \***Persistence and degradability** No further relevant information available.
- \***Behavior in environmental systems:**
- \***Bioaccumulative potential** No further relevant information available.
- \***Mobility in soil** No further relevant information available.
- \***Additional ecological information:**
- \***General notes:**
- Water hazard class 1 (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.
- \***Results of PBT and vPvB assessment**
- \***PBT:** Not applicable.
- \***vPvB:** Not applicable.
- \***Other adverse effects** No further relevant information available.

### 13 Disposal considerations

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

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\*Uncleaned packagings:

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

### 14 Transport information

*UN-Number	
*DOT/TDG, ADR, IMDG, IATA	Void
*UN proper shipping name	
*DOT/TDG, ADR, IMDG, IATA	Void
*Transport hazard class(es)	
*DOT/TDG, ADR, IMDG, IATA	
*Class	Void
*Packing group	
*DOT/TDG, ADR, IMDG, IATA	Void
*Environmental hazards:	Not applicable.
*Special precautions for user	Not applicable.
*Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
*UN "Model Regulation":	Void

### 15 Regulatory information

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

\*SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

\*SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

\*TSCA (Toxic Substances Control Act)

All components have the value ACTIVE.

\*MAK (German Maximum Workplace Concentration)

CAS: 64-17-5 ethyl alcohol

5

\*GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

\*Hazard pictograms



GHS08

\*Signal word Danger

\*Hazard-determining components of labeling:

boric acid

\*Hazard statements

May damage fertility or the unborn child.

\*Precautionary statements

Obtain special instructions before use.

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Wear protective gloves/protective clothing/eye protection/face protection.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**\*National regulations:**

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

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

### 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.

**\*Department issuing SDS:** Health and Safety

**\*Contact:** sds@reagecon.ie

**\*Date of the latest revision of the safety data sheet** 04/10/2025 / 7

**\*Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

NFPA: National Fire Protection Association (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

**\*\* Data compared to the previous version altered.**

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