

1 Identification

***Product identifier**

***Trade name:** **BORIC ACID 4% WITH SHER INDICATOR**
pH 4.65 ± 0.15 @ 20°C

***Article number:** 11064973

***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

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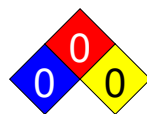
according to HPR, Schedule 1

Printing date 04/10/2025

Reviewed on 04/10/2025

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Hazard statementsMay 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 proceduresWear 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/m³

TWA: 2 mg/m³

EV STEL: 6 mg/m³

TWA: 2 mg/m³

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:**

Goggles recommended during refilling.

9 Physical and chemical properties

Information on basic physical and chemical properties**General Information*****Appearance:**

Form:	Fluid
Color:	According to product specification
*Odor:	Characteristic
*Odor threshold:	Not determined.

pH-value at 20 °C:** 4.65Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	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:**

Lower:	Not determined.
Upper:	Not determined.

Vapor pressure at 20 °C:** 23 hPaDensity at 20 °C:** 1.01741 g/cm³***Relative density** Not determined.***Vapor density** Not determined.***Evaporation rate** Not determined.***Solubility in / Miscibility with****Water:** Not miscible or difficult to mix.***Partition coefficient (n-octanol/water):** Not determined.***Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

***Solvent content:**

Organic solvents:	0.0 %
Water:	96.0 %

Solids content: 4.0 %***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

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***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, IMDG, IATA Void

*ADR Void

*ADR 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)

CAS: 100-02-7 4-nitrophenol

*TSCA (Toxic Substances Control Act)

All components have the value ACTIVE.

*MAK (German Maximum Workplace Concentration)

CAS: 64-17-5 ethyl alcohol

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*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.

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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 / 10

***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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