

Safety data sheet according to 1907/2006/EC, Article 31 Page 1/7

Printing date 07.10.2021

Revision: 07.10.2021

Version number 8.02 (replaces version 8.01)

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

· 1.1 Product identifier

Trade name: Buffer Solution pH 10.00 (20°C)

· Article number: 2584

· Application of the substance / the mixture Laboratory chemicals

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: PANREAC QUIMICA S.L.U.

Tel. (+34) 937 489 400 C/Garraf 2 Fax. (+34) 937 489 401 Polígono Pla de la Bruguera e-mail: product.safety@panreac.com

E-08211 Castellar del Vallès (Barcelona)

· Further information obtainable from: email: product.safety@panreac.com

· 1.4 Emergency telephone number:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the CLP regulation.
- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Additional information:

EUH210 Safety data sheet available on request.

- · 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**: ageous solution

(Contd. on page 2)

Safety data sheet according to 1907/2006/EC, Article 31

Page 2/7

Printing date 07.10.2021 Revision: 07.10.2021

Version number 8.02 (replaces version 8.01)

Trade name: Buffer Solution pH 10.00 (20°C)

(Contd. of page 1) Dangerous components: CAS: 10043-35-3 **Boric Acid** >0.1-≤1% EINECS: 233-139-2 Repr. 1B, H360FD Reg.nr.: 01-2119486683-25-Specific concentration limit: Repr. 1B; H360: C ≥ 5.5 % XXXX SVHC

10043-35-3 Boric Acid

0.309%

• 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
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water.

Seek medical treatment.

· After swallowing:

Rinse out mouth.

make victim drink water (maximum of 2 drinking glasses)

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.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 5.2 Special hazards arising from the substance or mixture Non-combustible.
- 5.3 Advice for firefighters
- **Protective equipment:** Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Contain escaping vapours with water.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Avoid substance contact.

Do not inhale steams/aerosols.

- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Clean up affected area.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Contd. on page 3)

Page 3/7

Printing date 07.10.2021 Revision: 07.10.2021

Version number 8.02 (replaces version 8.01)

Trade name: Buffer Solution pH 10.00 (20°C)

See Section 13 for disposal information.

(Contd. of page 2)

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Provide alkali-resistant floor.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container sealed.
- · Recommended storage temperature: Room Temperature
- · Storage class: 12
- · 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs								
10043-35-	3 Boric Acid							
Oral	Acute - systemic effects, general population	0.98 mg/kg						
	Long-term - systemic effects, general population	0.98 mg/kg						
Dermal	Long-term - systemic effects, worker	392 mg/kg						
	Long term - systemic effects, general population	196 mg/kg						
Inhalative	Long-term - systemic effects, worker	8.3 mg/m3						
	Long-term - systemic effects, general population	4.15 mg/m3						

· PNECs

10043-35-3 Boric Acid

Aquatic compartment - freshwater
Aquatic compartment - marine water
Z.02 mg/L
Terrestrial compartment - soil
Sewage treatment plant
5.7 mg/kg
10 mg/L

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- \cdot Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

· Respiratory protection:

Filter ABEK

Use suitable respiratory protective device only when aerosol or mist is formed.

· Hand protection

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.

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31

Page 4/7

Printing date 07.10.2021 Revision: 07.10.2021

Version number 8.02 (replaces version 8.01)

Trade name: Buffer Solution pH 10.00 (20°C)

(Contd. of page 3)

· 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.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: > 0.11 mm

Value for the permeation: Level ≥ 480 min

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level \geq 480 min

· Eye/face protection Safety glasses

· Body protection:

Protective work clothing

Alkaline resistant protective clothing

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Fluid

· Colour: According to product specification

Odour: OdourlessOdour threshold: Not determined.

· Melting point/freezing point: -6 °C

· Boiling point or initial boiling point and boiling

range 110 °C

· **Flammability** Not applicable.

Lower and upper explosion limit

Lower: Not determined.Upper: Not determined.Flash point: Not applicable.

Auto-ignition temperature: Product is not selfigniting.

• **Decomposition temperature:** Not determined.

pH at 20 °C 10

Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

water: Fully miscible.
 Partition coefficient n-octanol/water (log value) Not determined.
 Vapour pressure: Not determined.

Density and/or relative density

Density at 20 °C: 1 g/cm³

Relative densityVapour densityNot determined.Not determined.

· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

• **Explosive properties:** Product does not present an explosion hazard.

Solvent content:

• **Water:** 99.2 %

(Contd. on page 5)

Page 5/7

Printing date 07.10.2021 Revision: 07.10.2021

Version number 8.02 (replaces version 8.01)

Trade name: Buffer Solution pH 10.00 (20°C)

(Contd. of page 4) · Change in condition · Evaporation rate Not determined. Information with regard to physical hazard · 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 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: In the event of fire: See chapter 5

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.
- LD/LC50 values relevant for classification:

Quantitative data on the toxicological effect of this product are not available.

· Components	Type	Value	Species		
10043-35-3 Boric Acid					
Oral LD50 3,765 mg/kg (ra	t)				

- · 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.
- · After inhalation: No irritant effect.
- · 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 Based on available data, the classification criteria are not met.
- · 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.

(Contd. on page 6)

Safety data sheet according to 1907/2006/EC, Article 31

Page 6/7
Printing date 07.10.2021

Revision: 07.10.2021

Version number 8.02 (replaces version 8.01)

Trade name: Buffer Solution pH 10.00 (20°C)

· Additional toxicological information:

(Contd. of page 5)

Repeated dose toxicity

10043-35-3 Boric Acid

Oral NOAEL 100 mg/kg bw/day (rat)

- 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.
- Type of test Effective concentration Method Assessment

10043-35-3 Boric Acid

EC50/48 h | 133 mg/l (daphnia magna) (ECOTOX Database)

LC50/96 h | 50-100 mg/l (Oncorhynchus mykiss) (ECOTOX Database)

- 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: Not hazardous for water.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, ADN, IMDG, IATA Void

· 14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA Void

· 14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class Void

(Contd. on page 7)

Page 7/7

Printing date 07.10.2021 Revision: 07.10.2021

Version number 8.02 (replaces version 8.01)

Trade name: Buffer Solution pH 10.00 (20°C)

(Contd. of page 6)

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.

Transport/Additional information:
Not dangerous according to the above specifications.

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.
- National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57

 10043-35-3 Boric Acid 0.309%
 - 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.

· Relevant phrases

H360FD May damage fertility. May damage the unborn child.

Abbreviations and acronyms:

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)

DNEL: Derived No-Effect Level (RÈACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative Repr. 1B: Reproductive toxicity – Category 1B

* * Data compared to the previous version altered.

GB