

Safety data sheet

Buffer solution pH 9.21

Version 1.0

Effective date: 03-06-2020



SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade name: Buffer solution pH 9.21.

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Product use: Buffer solution.

1.3 Details of the Supplier of the safety data sheet:

Supplier: Unisense A/S
Langdyssen 5
DK-8200 Aarhus N
Denmark
Tel: +45 8944 9500
www.unisense.com

Contact: sales@unisense.com

1.4 Emergency telephone number:

Use your national or local emergency number.

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture according to CLP no. 1272/2008.

Not classified.

2.2 Label elements according to CLP no. 1272/2008.

Not classified.

2.3 Other hazards.

The product does not contain any PBT or vPvB substances.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: The product is a mixture.

3.2 Mixture:

CAS/EC-no.	REACH-no.	Name	Content %	Classification
7732-18-5 / 231-791-2	-	Deionised water	95-99	-
1303-96-4 / 215-540-4	-	disodium tetraborate decahydrate; borax decahydrate	1-2.5	Repr. 1B H360FD*

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*Specific concentrations limit: Repr. 1B; H360 FD ≥ 8.5 %.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

- General information:** In the case of symptoms or doubt: Contact a doctor or casualty department.
- Inhalation:** Move to fresh air in case of accidental inhalation of vapors or decomposition products.
- Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
- Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists, consult a specialist.
- Ingestion:** Rinse mouth. Get Medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

None known.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing media:** Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.

Unsuitable extinguishing media:

None known.

5.2 Special hazards arising from the substance or mixture:

The product itself does not burn.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact. Water mist may be used to cool closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

See section 8 for recommendations on the use of personal protective equipment. Ensure adequate ventilation. Sweep up to prevent slipping hazard. Avoid contact with skin and eyes. Do not breathe vapors/dust.

6.2 Environmental precautions:

Do not flush into surface water or sanitary sewer system.

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6.3 Methods and material for containment and cleaning up:

Small Spills: wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable and closed containers for disposal.
Then rinse the spillage site with plenty of water. Collected material is disposed of in accordance with section 13.

6.4 Reference to other sections:

See section 8 for personal protection.
See section 13 for disposal.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Wear appropriate personal protective equipment - see section 8.
Avoid contact with skin and eyes. Use according to instruction from supplier.

7.2 Conditions for safe storage, including any incompatibilities:

Store only in the original packaging.
Protect from frost. Store at room temperature in the original container.

7.3 Specific end use(s):

This product should only be used for applications described in section 1.2.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits EH40 (Great Britain) 2018:

CAS-no:	Name:	Limits:	Remarks:
1303-96-4	Disodium tetraborate decahydrate	Long-term value: 5.0 mg/m ³	-

DNEL/PNEC:

-

8.2 Exposure controls

Appropriate technical measures:

Normal room ventilation.

General information / hygiene measures:

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom. Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Avoid contact with skin, eyes and clothing.

Personal protective equipment:

Only CE-marked personal protection equipment should be used.

Respiratory protection:

In case of good ventilation no personal respiratory protective equipment required.

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Hand protection: Work gloves. EN 374.
Option: Nitrile gloves \geq 240 min.

Eye protection: Safety glasses with side-shields conforming to EN166.

Body protection: Long sleeved clothing.

Measures to avoid environmental exposure:
Prevent product from entering surface water or sewage.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: Liquid	Color: Blue	Odor: None	PH: 9.2	Viscosity: No data
Flashpoint: No data	Boiling point: No data	Vapor pressure: No data	Density g/cm³: No data	Meltingpoint: Not relevant
Thermal decomposition: No data	Auto-ignition: No danger	Explosive limits Not explosive	Solubility in water: Completely miscible	Decomposition temperature: No data

9.2 Other information:
None.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: None known.

10.2 Chemical stability: Stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions:
None known.

10.4 Conditions to avoid: Store frost-free.

10.5 Incompatible materials: None known.

10.6 Hazardous decomposition products:
None at recommended storage conditions and use.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity: Not classified.

Disodium tetraborate decahydrate; borax decahydrate – cas 1303-96-4:
Oral – LD50 – Rat: 3493 mg/kg
Dermal – LD50 – Rabbit: >10000 mg/kg

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Skin corrosion/irritation:	Not classified.
Serious eye damage/irritation:	Not classified.
Respiratory or skin sensitization:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
Specific target organ toxicity - single exposure:	Not classified.
Specific target organ toxicity – repeated exposure:	Not classified.
Aspiration hazard:	Not classified.
Additional information:	The product contains no substances which at their given concentration, are considered to be hazardous to health.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity:	Not classified harmful to the environment.
12.2 Persistence and degradability:	Expected to be biodegradable.
12.3 Bioaccumulative potential:	Bioaccumulation is unlikely.
12.4 Mobility in soil:	Easily absorbed into the soil.
12.5 Result of PBT and vPvB assessment:	The product does not meet the criteria for PBT or vPvB.
12.6 Other adverse effects:	None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:	Must be disposed of in accordance with local and national regulations. Residues are usually not hazardous waste. The given EWC-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.
Contaminated packing:	Properly cleaned container is disposed of according to packaging material, otherwise as the product itself.

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SECTION 14. TRANSPORT INFORMATION

This product is not classified as dangerous to transport.

	ADR/RID	IMDG/IMO
14.1 UN number	Not relevant	Not relevant
14.2 UN proper shipping name	Not relevant	Not relevant
14.3 Transport hazard class(es)	Not relevant	Not relevant
14.4 Packing group	Not relevant	Not relevant
14.5 Environmental hazards – MP EmS:	No Not relevant	No Not relevant
Other informations	LQ: - Tunnel: -	LQ: - Tunnel: -

14.6 Special precautions for user:

Not relevant.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not relevant.

SECTION 15. REGULATORY INFORMATION

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

Sources:

Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended). Personal Protective Equipment Regulations 2002. Personal Protective Equipment at Work Regulations 1992. Hazardous Waste (England and Wales) Regulations 2005(as amended). EC regulation 1907/2006 (REACH) Directive 2000/532/EC. Seveso directive: 96/82/EC. EU 830/2015. REACH/CLP 1272/2008. REACH 1907/2006.

Additional information: For professional use only.

15.2 Chemical safety assessment:

Chemical safety assessments have not been performed for this product.

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SECTION 16. OTHER INFORMATION

Full text of H-phrases as mentioned in section 3:

H360FD May damage fertility. May damage the unborn child.

Additional information:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Validated by:

SRS

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