

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Revision Date 04.09.2019

Version 1.3

SECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier

Catalogue No.	199022
Product name	Buffer Solution (di-sodium hydrogen phosphate/sodium hydroxide)
	traceable to SRM from NIST und PTB pH 12.00 (25°C) Certipur®
REACH Registration Number	This product is a mixture. REACH Registration Number see section 3.

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

Identified uses	Reagent for analysis
	For additional information on uses please refer to the Merck
	Chemicals portal (www.merckgroup.com).

1.3 Details of the supplier of the safety data sheet

1.4 Emergency telephone	Please contact the regional company representation in
Responsible Department	LS-QHC * e-mail: prodsafe@merckgroup.com
Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture REGULATION (EC) No 1272/2008 Not a hazardous substance or mixture according to Regulatio

your country.

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

None known.

number

SECTION 3. Composition/information on ingredients

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Chemical nature 3.1 Substance Not applicable	Aqueous solution
3.2 Mixture	
Remarks	No disclosure requirement according to Regulation (EC) No. 1907/2006.

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

We have no description of any symptoms of toxicity.

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

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not combustible. Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus.

Further information none

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

No special precautionary measures necessary.

6.3 Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Take up with liquidabsorbent and neutralising material (e.g. Chemizorb® OH⁻, Merck Art. No. 101596). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Observe label precautions.

Hygiene measures Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.



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Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

	Glove material: Glove thickness: Break through time:	Nitrile rubber 0,11 mm 480 min
splash contact:		
·	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Respiratory protection

Not required; except in case of aerosol formation.

Environmental exposure controls

No special precautionary measures necessary.

SECTION 9. Physical and chemical properties 9.1 Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
Odour Threshold	Not applicable
рН	12,0 at 25 °C



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Melting point	No information available.
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	ca.1,00 g/cm3 at 20 °C
Relative density	No information available.
Water solubility	No information available.
Partition coefficient: n- octanol/water	No information available.
Auto-ignition temperature	Not applicable
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
9.2 Other data	
Ignition temperature	Not applicable

SECTION 10. Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

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10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

no information available

SECTION 11. Toxicological information

11.1 Information on toxicological effects Mixture

Acute oral toxicity This information is not available.

Acute inhalation toxicity This information is not available.

Acute dermal toxicity This information is not available.

Skin irritation This information is not available.

Eye irritation This information is not available.

Sensitisation This information is not available.

Germ cell mutagenicity This information is not available.

Carcinogenicity

This information is not available.

Reproductive toxicity This information is not available.

Teratogenicity This information is not available.

Specific target organ toxicity - single exposure This information is not available.

Specific target organ toxicity - repeated exposure This information is not available.

Aspiration hazard This information is not available.

11.2 Further information

Hazardous properties cannot be excluded, but are relatively improbable due to the low concentration of the dissolved substance(s).

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Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

Mixture

12.1 Toxicity

No information available.

12.2 Persistence and degradability No information available.

12.3 Bioaccumulative potential No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

Waste treatment methods See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
Inland waterway tr	ansport (ADN)
Not relevant	
Air transport (IATA)
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
Sea transport (IMD	G)
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.

Not relevant

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above the respective regulatory concentration limit of ≥ 0.1 %

(w/w).

SECTION 15. Regulatory information

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

EU regulationsMajor Accident HazardSEVESO IIILegislationNot applicable

Regulation (EC) No 1005/2009 on substances not regulated that deplete the ozone layer

Regulation (EC) No 850/2004 of thenot regulatedEuropean Parliament and of the Council of 29April 2004 on persistent organic pollutantsand amending Directive 79/117/EEC

Substances of very high concern (SVHC) This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57

National legislation Storage class 10 - 13

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

The branding on the header and/or footer of this document may temporarily not visually



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match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

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