METTLER TOLEDO SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) 2020/878)

Buffer solution pH 4.006 NIST/DIN

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

1.1. Product identifier	
Product name	Buffer solution pH 4.006 NIST/DIN
Product code	52118009, 30323688, 51350052, 30111136

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

Use of the Substance/Mixture	Laboratory chemicals
	Laboratory chernicals

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	Mettler-Toledo GmbH Im Langacher 44 CH-8606 Greifensee Switzerland Tel: +41 22 567 53 22 Fax: +41 22 567 53 23 Email: ph.lab.support@mt.com
1.4. Emergency telephone number	(24-Hour-Number): GBK GmbH +49 6132 84463
Revision date	30.04.2021
Version	GHS 3 (Previous versions: GHS 2)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to	The substance or mixture is not classified.
Regulation (EC) No. 1272/2008	

In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.

Additional information For the full text of the phrases mentioned in this Section, see Section 16.



2.2. Label elements

Signal Word	-
Hazard Statements	None.
Precautionary statements	None.
Supplemental information	None.
Product identifier	None.
2.3. Other hazards	No hazards to be specially mentioned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Buffer solution.

Components		CLP Classification	Product identifier
Deionised water	95% - 99%	-	CAS-No.: 7732-18-5 EC-No.: 231-791-2
Potassium hydrogen phthalate	1% - 2,5%	-	CAS-No.: 877-24-7 EC-No.: 212-889-4

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours or decomposition products. Consult a physician for severe cases.
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 thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Rinse mouth. Consult a physician for severe cases.
4.2. Most important symptoms and effects, both acute and delayed	If you feel unwell, seek medical advice (show the label where possible).



SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.
Extinguishing media which must not be used for safety reasons	None.
5.2. Special hazards arising from the substance or mixture	The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus. Wear protective suit.
Specific methods	Water mist may be used to cool closed containers. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	Ensure adequate ventilation. Use personal protective equipment. Sweep up to prevent slipping hazard. Avoid contact with skin and eyes. Do not breathe vapours/dust.
Advice for emergency responders	Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment. Sweep up to prevent slipping hazard.
6.2. Environmental precautions	Do not flush into surface water or sanitary sewer system.
6.3. Methods and material for containment and cleaning up	Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.
6.4. Reference to other sections	See chapter 8 and 13.



SECTION 7: Handling and storage

7.1. Precautions for safe handling	Wear personal protective equipment. Avoid contact with skin and eyes.
7.2. Conditions for safe storage, including any incompatibilities	Store at room temperature in the original container.
7.3. Specific end use(s)	No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
Exposure limit(s)	No data is available on the product itself.
8.2. Exposure controls	
Appropriate engineering controls	Avoid contact with skin, eyes and clothing.
Personal protection equipment	
Respiratory protection	In case of good ventilation no personal respiratory protective equipment required.
Hand protection	Gloves made of latex. The selected protective gloves have to satisfy the specifications of Regulation (EU) No. 2016/425 and the standard EN 374 derived from it. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	Safety glasses with side-shields conforming to EN166.
Skin and body protection	Long sleeved clothing.
Thermal hazards	No special measures required.

Environmental exposure controls No special measures required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Colour Odour Melting point/ freezing point: Boiling point or initial boiling point / range: Liquid. Colourless. None. Not determined. Not determined.

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Flammability: Lower and upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n- octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:	Not determined. Not determined. Not determined. Not determined. 4 Not determined. completely miscible (Water) Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
9.2. Other information	
Other safety characteristics	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	No information available.
10.2. Chemical stability	Stable at normal conditions.
10.3. Possibility of hazardous reactions	No information available.
10.4. Conditions to avoid	Not required.
10.5. Incompatible materials	None.
10.6. Hazardous decomposition products	None reasonably foreseeable.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	No data is available on the product itself. Deionised water (CAS 7732-18-5) Oral LD50 Rat > 90 mL/kg (FOOD_JOURN) Potassium hydrogen phthalate (CAS 877-24-7) Oral LD50 Rat > 3200 mg/kg (NLM_CIP)
Skin corrosion/irritation	No skin irritation.
Serious eye damage/eye irritation	No eye irritation.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	No data available.

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Germ cell mutagenicity	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.
Human experience	No data available.
11.2. Information on other hazards Information on likely routes of dermal exposure	
Other 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	No data is available on the product itself.
12.2. Persistence and degradability	Expected to be biodegradable.
12.3. Bioaccumulative potential	Bioaccumulation is unlikely.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
12.6. Endocrine disrupting properties	No information available.
12.7. Other adverse effects	No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused	Dispose of in accordance with local regulations. Used product,
products	diluted with water, is not dangerous waste according to European
	Waste Code.



SECTION 14: Transport information

14.1. UN number or ID number	Not applicable.
14.2. UN proper shipping name	Not applicable.
14.3. Transport hazard class(es)	Not applicable.
14.4. Packing group	Not applicable.
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.
UN Model Regulations	
ADR/RID	Not regulated.
IMDG	Not regulated.
ΙΑΤΑ	Not regulated.
Further Information	Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

Regulatory Information	In accordance with Regulation (EC) No. 1272/2008, the product
	does not need to be classified nor labelled.

Potassium hydrogen phthalate (CAS 877-24-7)	
EU - REACH (1907/2006) - List of	Present
Registered Substances	
15.2. Chemical safety	Not required.
assessment	

SECTION 16: Other information

Revision Note	Safety datasheet sections which have been updated: 3, 11, 13, 15.
Key or legend to abbreviations and acronyms	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)



Key literature references and sources for data	Information taken from reference works and the literature.
Classification procedure	Calculation method.
Full text of phrases referred to under sections 2 and 3	None.
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.

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