METTLER TOLEDO SAFETY DATA SHEET

according to the Globally Harmonized System

Buffer solution pH 4.01

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

1.1. Product identifier

Product name Buffer solution pH 4.01

Product code 52118020, 51302069, 51302083, 51350004, 51350018, 51350032,

51350042

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

Use of the Substance/Mixture Laboratory chemicals

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

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Version GHS 2

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

The substance or mixture is not classified.

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 hazardsNo 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

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency Ensure adequate ventilation

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 precautionsDo 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 chapte

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 EU Directive 89/686/EEC 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 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. Colour Red. Odour None.

Odour Threshold Not determined.

pH:

Buffer solution pH 4.01 V. GHS 2 / 29.11.2017 Print Date 29.11.2017 Page 4/7



Melting point/range:Not determined.Boiling point/range:Not determined.Flash point:Not determined.

Evaporation Rate: Not determined. Flammability: Not determined. **Explosion limits:** Not determined. Vapour pressure: Not determined. Vapor density: Not determined. Relative density: Not determined. Water solubility: completely miscible Partition coefficient (n-Not determined.

octanol/water):

Autoignition temperature:

Decomposition temperature:

Viscosity:

Not determined.

Not determined.

Not determined.

Not determined.

Not determined.

Oxidising properties: None

9.2. Other information

General Product 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 toxicological effects

Acute toxicityNo 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/irritationNo skin irritation.

Serious eye damage/eye

irritation

No eye irritation.

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Respiratory / Skin Sensitisation None.

Carcinogenicity No data available.

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.

Information on likely routes of

exposure

dermal

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. Other adverse effectsNo information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of as unused product.



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SECTION 14: Transport information

ADR/RID Not regulated.

IMDG Not regulated.

IATA 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.

Deionised water (CAS 7732-18-5)		
Inventory - United States - Section	Present (ACTIVE)	
8(b) Inventory (TSCA)		
U.S TSCA (Toxic Substances	Present (listed under Certain forms of natural gas and water)	
Control Act) - Section 8(a) -		
Chemical Data Reporting Rule -		
Fully Exempt Substances		
Potassium hydrogen phthalate (CAS 877-24-7)		
EU - REACH (1907/2006) - List of	Present	
Registered Substances		
Inventory - United States - Section	Present	
8(b) Inventory (TSCA)		

15.2. Chemical safety

assessment

Not required.

SECTION 16: Other information

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.

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specification.



