METTLER TOLEDO SAFETY DATA SHEET

according to the Globally Harmonized System

Buffer solution pH 2.00

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

1.1. Product identifier

Product name Buffer solution pH 2.00

Synonyms Buffer pH 2.00 (9852)

Product code 52118017, 51350002, 51350016, 30111134

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

Use of the Substance/Mixture Technical buffer solution

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

Issuing date 30.11.2017

Version GHS 2

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Skin corrosion/irritation, Cat. 2, H315

Regulation (EC) No. 1272/2008 Serious eye damage/eye irritation, Cat. 2, H319

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

Section 16.



2.2. Label elements



Signal Word Warning

Hazard Statements H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary statements P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280c: Wear protective gloves/ eye protection/ face protection. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

Supplemental information None.

Product identifier Citric acid anhydrous, CAS-No. 77-92-9, EC-No. 201-069-1

Hydrogen chloride, CAS-No. 7647-01-0, EC-No. 231-595-7

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components		CLP Classification	Product identifier
Deionised water	95% - 99%		CAS-No.: 7732-18-5 EC-No.: 231-791-2
Citric acid anhydrous	0.5% - 1%	Eye Irrit. 2 H319	CAS-No.: 77-92-9 EC-No.: 201-069-1
Hydrogen chloride	0.01% - 0.1%	Acute Tox. 3 H331, Skin Corr. 1A H314, Press. Gas H280	CAS-No.: 7647-01-0 EC-No.: 231-595-7 Index-No: 017-002-00-2

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

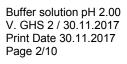
Hazardous impurities None known.

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.

Rinse thoroughly with plenty of water, also under the eyelids. Eye contact

Consult an ophthalmologist.

Rinse mouth. Immediately give large quantities of water to drink. Ingestion

Induce vomiting if person is conscious. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and

delayed

Irritant effect: on eyes, on skin, on air passages. If you feel unwell, seek medical advice (show the label where possible). May be

corrosive.

4.3. Indication of any immediate medical attention and special

treatment needed

None known.

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.

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

Use personal protective equipment. Sweep up to prevent slipping

hazard. Handle in accordance with good industrial hygiene and

safety practice.

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. Practice care and caution to avoid skin contact and inhalation of vapours or mists if generated.

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.

Hydrogen chloride (CAS 7647-01-0)		
EU - Occupational Exposure	5 ppm TWA	
(2000/39/EC) - First List of	8 mg/m3 TWA	
Indicative Occupational Exposure		
Limit Values - TWAs		
EU - Occupational Exposure	10 ppm STEL	
(2000/39/EC) - First List of	15 mg/m3 STEL	
Indicative Occupational Exposure		
Limit Values - STELs		
United Kingdom - Workplace	5 ppm STEL (aerosol mist and gas)	
Exposure Limits (WELs) - STELs	8 mg/m3 STEL (aerosol mist and gas)	
United Kingdom - Workplace	1 ppm TWA (aerosol mist and gas)	
Exposure Limits (WELs) - TWAs	2 mg/m3 TWA (aerosol mist and gas)	
U.S OSHA - Vacated PELs -	5 ppm Ceiling	
Ceilings	7 mg/m3 Ceiling	
U.S OSHA - Final PELs - Ceiling	5 ppm Ceiling	
Limits	7 mg/m3 Ceiling	

8.2. Exposure controls

Appropriate engineering controls Avoid contact with skin, eyes and clothing.



Personal protection equipment

Respiratory protectionNo personal respiratory protective equipment normally 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. Break through time: > 4 h. 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 protectionLong sleeved clothing. Choose body protection according to the

amount and concentration of the dangerous substance at the work

place.

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 Colourless.
Odour None.

Odour Threshold Not determined.

pH: 2

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:

Explosive properties:

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 avoidDirect sources of heat.

10.5. Incompatible materials Incompatible with strong bases and oxidizing agents.

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)

Citric acid anhydrous (CAS 77-92-9)

Oral LD50 Rat = 3 g/kg (NLM_CIP)

Hydrogen chloride (CAS 7647-01-0)

Dermal LD50 Rabbit > 5010 mg/kg (JAPAN_GHS) Inhalation LC50 Rat = 1.68 mg/L 1 h(JAPAN_GHS) Oral LD50 Rat 238 - 277 mg/kg (JAPAN_GHS)

Skin corrosion/irritation May cause irritation of the mucous membranes. May irritate skin.

May be corrosive.

Serious eye damage/eye

irritation

Moderate eye irritation. May be corrosive.

Respiratory / Skin Sensitisation No data available.

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.

Buffer solution pH 2.00 V. GHS 2 / 30.11.2017 Print Date 30.11.2017 Page 6/10



Information on likely routes of

exposure

dermal

Symptoms related to the physical, chemical and toxicological characteristics

May have irritant effect: on eyes, on skin, on air passages. May be corrosive. Inhaled corrosive substances can lead to a toxic oedema of the lungs.

SECTION 12: Ecological information

12.1. Toxicity No data is available on the product itself.

Citric acid anhydrous (CAS 77-92-9)

EU - Ecolabel (66/2010) - Biodegradable under anaerobic conditions.

Detergent Ingredient Database -

Anaerobic Degradation

EU - Ecolabel (66/2010) - Readily biodegradable according to OECD guidelines.

Detergent Ingredient Database -

Aerobic Degradation

Ecotoxicity - Freshwater Fish -

Acute Toxicity Data

LC50 96 h Lepomis macrochirus 1516 mg/L [static] (IUCLID)

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

No information available.

12.6. Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of as hazardous waste in compliance with local and

national regulations.

Contaminated packaging Dispose of as unused product.

SECTION 14: Transport information

ADR/RID Not regulated.

IMDG Not regulated.

Buffer solution pH 2.00 V. GHS 2 / 30.11.2017 Print Date 30.11.2017 Page 7/10



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 The product is classified and labelled according to Regulation (EC)

No. 1272/2008.

All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

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				
Citric acid anhydrous (CAS 77-92-9)				
EU - Biocides (1062/2014) - Annex	060 Product type 1 (201-069-1)			
II Part 1 - Supported Substances				
EU - Biocides (2007/565/EC) -	Product type: 2			
Substances and Product-Types Not	Product type: 3			
to Be Included in Annexes I, IA and				
IB to Directive 98/8/EC				
EU - REACH (1907/2006) - List of	Present			
Registered Substances				
Inventory - United States - Section	Present (ACTIVE)			
8(b) Inventory (TSCA)				
U.S FIFRA - Listing of Pesticide	Section number 180.950			
Chemicals (40 CFR 180)				
U.S FIFRA - Inert Ingredients	Citric acid			
Eligible for FIFRA Section 25(b)				
Pesticide Products				
U.S FIFRA - Active Ingredients	Citric acid			
Eligible for FIFRA Section 25(b)				
Pesticide Products				
U.S TSCA (Toxic Substances	Chemical of low current interest			
Control Act) - Section 8(a) -				
Chemical Data Reporting Rule -				
Partially Exempt Substances				
Hydrogen chloride (CAS 7647-01-0)				
EU - Narcotics (2015/1011) -	100 kg			
Implementing Export Requirements				
- Annual Maximum Export				
Quantities for Exemption				
EU - Narcotics (111/2005) -	Category 3 Substance ([2806 10 00])			
Implementing Export Requirements				
- Scheduled Substances				
EU - Biocides (98/8/EC) - Annex I -	999 g/kg 2 (listed under EC Number 231-595-7)			
Active Substances - Minimum				
Purity				



Active Substances - Specific Provisions product, those uses or exposure scenarios and those risks to human populations and to environmental compartments that have not been representatively addressed in the Union level risk assessment. Member States shall ensure that authorisations of products for non-professional use are subject to the packaging being designed to minimize user exposure, unless it can be demonstrated in the application for product authorisation that risks for human health can be reduced to acceptable levels by other means (listed under EC Number 231-595-7) EU - Biocides (98/8/EC) - Annex I - Active Substances - Product Type EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates EU - Biocides (98/8/EC) - Annex I - Active Substances IV - REACH (1907/2006) - List of Registered Intermediates EU - REACH (1907/2006) - List of Registered Intermediates EU - REACH (1907/2006) - List of Registered Intermediates EU - REACH (1907/2006) - List of Registered Intermediates EU - REACH (1907/2006) - List of Registered Intermediat		
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15.2. Chemical safety assessment

Not required.

Buffer solution pH 2.00 V. GHS 2 / 30.11.2017 Print Date 30.11.2017 Page 9/10



SECTION 16: Other information

Revision Note Safety datasheet sections which have been updated: 2.

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

H280: Contains gas under pressure; may explode if heated.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

Instructions for use

Restricted to professional users.

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.

