# METTLER TOLEDO SAFETY DATA SHEET

according to the Globally Harmonized System

# **Buffer solution pH 10.00**

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

1.1. Product identifier

**Product name** Buffer solution pH 10.00

**Product code** 52118018, 51350010, 51350024, 51350038, 51350048

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

**Issuing date** 05.12.2017

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 hazards** May cause eye/skin irritation.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Buffer solution.

Components		<b>CLP Classification</b>	Product identifier
Deionised water	95% - 99%		CAS-No.: 7732-18-5 EC-No.: 231-791-2
Sodium hydroxide; caustic soda	0.1% - 0.5%	Skin Corr. 1A H314 [CSk1A: C ≥ 5 %   CSk1B: 2 % ≤ C < 5 %   CSk2: 0,5 % ≤ C < 2 %   CEy2: 0,5 % ≤ C < 2 %]	CAS-No.: 1310-73-2 EC-No.: 215-185-5 Index-No: 011-002-00-6

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.

#### **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.

Sodium hydroxide; caustic soda (CAS 1310-73-2)		
United Kingdom - Workplace	2 mg/m3 STEL	
Exposure Limits (WELs) - STELs		
U.S OSHA - Final PELs - Time	2 mg/m3 TWA	
Weighted Averages (TWAs)		
U.S OSHA - Vacated PELs -	2 mg/m3 Ceiling	
Ceilings		

#### 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

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Solvent-resistant gloves (butyl-rubber)

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

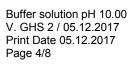
No special measures required.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

Liquid.





ColourColourless.OdourNone.

Odour Threshold Not determined.

**pH**: 10

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:Not determined.Decomposition temperature:Not determined.Viscosity:Not determined.Explosive properties:not hazardous

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

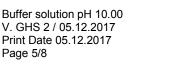
**Acute toxicity** No data is available on the product itself.

Deionised water (CAS 7732-18-5)

Oral LD50 Rat > 90 mL/kg (FOOD\_JOURN)

Sodium hydroxide; caustic soda (CAS 1310-73-2)

Dermal LD50 Rabbit = 1350 mg/kg (IUCLID)





**Skin corrosion/irritation** Mild skin irritation.

Serious eye damage/eye

irritation

Slight eye irritation.

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.

Sodium hydroxide; caustic soda (CAS 1310-73-2)

Ecotoxicity - Freshwater Fish - LC50 96 h Oncorhynchus mykiss 45.4 mg/L [static] (IUCLID)

Acute Toxicity Data

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.



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### **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.

# **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 (CLP), 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				
Sodium hydroxide; caustic soda (CAS 1310-73-2)				
EU - Cosmetics (1223/2009) -	Contains alkali. Avoid contact with eyes. Can cause blindness.			
Annex III - Conditions of Use and	Keep out of reach of children. (Nail cuticle solvent)			
Warnings	Contains alkali. Avoid contact with eyes. Can cause blindness.			
	Keep out of reach of children. (Hair straightener, general use)			
	For professional use only. Avoid contact with eyes. Can cause			
	blindness. (Hair straightener, professional use)			
	Keep out of reach of children. Avoid contact with eyes. (pH adjuster			
	for depilatories)			
EU - Cosmetics (1223/2009) -	Nail cuticle solvent			
Annex III - Field of Application	Hair straightener			
and/or Use	pH adjuster for depilatories			
	Other uses as pH adjuster			
EU - Cosmetics (1223/2009) -	5 % MAC (Nail cuticle solvent)			
Annex III - Maximum Authorised	2 % MAC (Hair straighteners, general use)			
Concentration	4.5 % MAC (Hair straighteners, professional use)			



EU - Cosmetics (1223/2009) -	General use, professional use (Hair straighteners)
Annex III - Other Limitations and	<12.7 pH (pH adjuster for depilatories)
Requirements	<11 pH (Other uses as pH adjuster)
EU - REACH (1907/2006) - List of	Present ([215-185-5])
Registered Intermediates	
EU - REACH (1907/2006) - List of	Present
Registered Substances	
Inventory - United States - Section	Present (ACTIVE)
8(b) Inventory (TSCA)	
U.S CERCLA/SARA - Hazardous	1000 lb final RQ
Substances and their Reportable	454 kg final RQ
Quantities	
U.S CPSC (Consumer Product	Banned, 16 CFR 1500.17 (>=10% by weight in liquid drain
Safety Commission) - Specially	cleaners)
Regulated Substances	Add POISON to label, 16 CFR 1500.129 (>=10%
	free or chemically unneutralized)
U.S FIFRA - Listing of Pesticide	Section number 180.910
Chemicals (40 CFR 180)	Section number 180.930
U.S California - Toxic Air	Category IIb
Contaminant List (AB 1807, AB	
2728)	
U.S California - Occupational	2 mg/m3 PEL (caustic soda)
Exposure Limits - PELs	
U.S California - Occupational	2 mg/m3 Ceiling
Exposure Limits - Ceilings	

15.2. Chemical safety assessment

Classification procedure

Not required.

### **SECTION 16: Other information**

**Revision Note** Safety datasheet sections which have been updated: 1-16.

Key or legend to abbreviations CLP: Classification according to Regulation (EC) No. 1272/2008

and acronyms (GHS)

Key literature references and Information taken from reference works and the literature. sources for data

Calculation method.

Full text of phrases referred to H314: Causes severe skin burns and eye damage. under sections 2 and 3

**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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