

# Palintest

Water Analysis Technologies

## SAFETY DATA SHEET pH 10 BUFFER TABLETS

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

#### 1.1. Product identifier

**Product name** pH 10 BUFFER TABLETS  
**Product number** SK 400, SK 500, PT 105/5, SL 170, SP 301, PT 105/6

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

**Identified uses** FOR PREPARATION OF BUFFER SOLUTION OF KNOWN pH

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** PALINTEST LIMITED  
PALINTEST HOUSE  
TEAM VALLEY  
GATESHEAD  
TYNE & WEAR NE11 0NS  
ENGLAND  
TEL 0191 491 0808  
FAX 0191 482 5372  
palintest@palintest.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44 (0)207 858 1228 (24hr)

**National emergency telephone number** NHS Direct: 0845 4647 (England and Wales) NHS 24: 08454 24 24 24 (Scotland)

### SECTION 2: Hazards identification

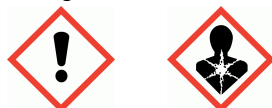
#### 2.1. Classification of the substance or mixture

##### Classification (EC/1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 1B - H360FD  
**Environmental hazards** Not Classified

#### 2.2. Label elements

##### Pictogram



**Signal word** Danger

**Hazard statements** H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H360FD May damage fertility if swallowed. May damage the unborn child if swallowed.

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<b>Precautionary statements</b>	<p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p>
<b>Contains</b>	DISODIUM TETRABORATE DECAHYDRATE, LITHIUM HYDROXIDE
<b>Supplementary precautionary statements</b>	<p>P201 Obtain special instructions before use.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P405 Store locked up.</p>

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<p><b>DISODIUM TETRABORATE DECAHYDRATE</b> <span style="float: right;"><b>40-60%</b></span></p> <p>CAS number: 1303-96-4                      EC number: 215-540-4                      REACH registration number: 01-2119490790-32-XXXX</p> <p>This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES.</p>
<p><b>Classification</b></p> <p>Repr. 1B - H360FD</p>
<p><b>LITHIUM HYDROXIDE</b> <span style="float: right;"><b>5-10%</b></span></p> <p>CAS number: 1310-66-3                      EC number: 215-183-4                      REACH registration number: 01-2119560576-31-XXXX</p>
<p><b>Classification</b></p> <p>Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318</p>
<p><b>TALC</b> <span style="float: right;"><b>&lt;5%</b></span></p> <p>CAS number: 14807-96-6                      EC number: 238-877-9                      REACH registration number: N/A</p>
<p><b>Classification</b></p> <p>Not Classified</p>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments**                      WHEN DISSOLVED IN WATER THE TABLETS PRODUCE A SOLUTION WHOSE pH IS OUTSIDE OF THE RANGE QUOTED FOR 'EXTREME pH' (CLP 3.2.3.3.4.2).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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<b>Inhalation</b>	Unlikely route of exposure as the product does not contain volatile substances.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Get medical attention immediately.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. May damage fertility or the unborn child.
<b>Inhalation</b>	This is unlikely to occur but symptoms similar to those of ingestion may develop.
<b>Ingestion</b>	May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
<b>Skin contact</b>	May cause serious chemical burns to the skin.
<b>Eye contact</b>	May cause blurred vision and serious eye damage.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use fire-extinguishing media suitable for the surrounding fire.
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### 5.2. Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	Heating may generate the following products: Toxic and corrosive gases or vapours.
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### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Not considered to be a significant hazard due to the small quantities used. The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Absorb in vermiculite, dry sand or earth and place into containers. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Good personal hygiene procedures should be implemented.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in tightly-closed, original container in a dry and cool place.

#### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### DISODIUM TETRABORATE DECAHYDRATE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

##### MICROCRYSTALLINE CELLULOSE

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Short-term exposure limit (15-minute): WEL 20 mg/m<sup>3</sup> inhalable dust

##### LITHIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 1 mg/m<sup>3</sup>

##### TALC

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup> respirable dust

WEL = Workplace Exposure Limit

**Ingredient comments** Due to the hazardous nature of ingredients, exposure should be minimal. WEL = Workplace Exposure Limits

#### 8.2. Exposure controls

##### Protective equipment



##### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

##### Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. It is recommended that gloves are made of the following material: Nitrile rubber.

##### Hygiene measures

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Wash promptly if skin becomes contaminated.

##### Respiratory protection

Due to the physical nature of this product, exposure by this route is unlikely. No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

### SECTION 9: Physical and Chemical Properties

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

**Appearance** Solid

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<b>Colour</b>	Light (or pale). Orange.
<b>Odour</b>	No characteristic odour.
<b>pH</b>	pH (concentrated solution): 10.3

### 9.2. Other information

<b>Other information</b>	No data available.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

<b>Stability</b>	Stable under the prescribed storage conditions.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	No data available.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	There are no anticipated hazardous decomposition products associated with this material.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	This product is toxic.
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### Acute toxicity - oral

<b>ATE oral (mg/kg)</b>	3,882.35294118
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## SECTION 12: Ecological Information

<b>Ecotoxicity</b>	There are no data on the ecotoxicity of this product. The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
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### 12.1. Toxicity

<b>Toxicity</b>	No data available.
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### 12.2. Persistence and degradability

<b>Persistence and degradability</b>	There are no data on the degradability of this product.
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### 12.3. Bioaccumulative potential

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
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### 12.4. Mobility in soil

<b>Mobility</b>	The product is soluble in water.
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### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**Road transport notes** The product is not classified as packaged as per ADR section 3.5.1.4

**Sea transport notes** The product is not classified as packaged as per IMDG section 3.5.1.4

**Air transport notes** The product is not subject to the requirements of IATA as packaged based upon "De Minimis Quantities" as per IATA Dangerous Goods Regulations subsection 2.6.10.1

### 14.1. UN number

**UN No. (ADR/RID)** 3262

**UN No. (IMDG)** 3262

**UN No. (ICAO)** 3262

**UN No. (ADN)** 3262

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (LITHIUM HYDROXIDE)

**Proper shipping name (IMDG)** CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (LITHIUM HYDROXIDE)

**Proper shipping name (ICAO)** CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (LITHIUM HYDROXIDE)

**Proper shipping name (ADN)** CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (LITHIUM HYDROXIDE)

### 14.3. Transport hazard class(es)

**ADR/RID class** 8

**ADR/RID classification code** C6

**ADR/RID label** 8

**IMDG class** 8

**ICAO class/division** 8

**ADN class** 8

### Transport labels



### 14.4. Packing group

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ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

#### SECTION 15: Regulatory information

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

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No data available.

### Inventories

#### US - TSCA

All the ingredients are listed or exempt.

#### US - TSCA 12(b) Export Notification

None of the ingredients are listed.

#### SECTION 16: Other information

Issued by	L. Morgan
Revision date	21/07/2016
Revision	10
Supersedes date	14/10/2015
SDS status	Approved.
Hazard statements in full	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H360FD May damage fertility if swallowed. May damage the unborn child if swallowed.

## pH 10 BUFFER TABLETS

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.