

# Material Safety Data Sheet

SD0371 v2.0 RS 205-081

According to 91/155 EC

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RS CHIP3 MSDS Date 01/09/03

1. **Identification of the substance/preparation and of the company/undertaking**

**Catalogue Number:** RS 205-081

**Product Name:** Buffer Capsule pH 4.01 ± 0.02 @ 25°C

**Manufacturer/Supplier Identification:**

RS Components Ltd,  
Birchington Road,  
Corby,  
Northants,  
NN17 9RS

Tel No:- +44 (0) 1536 402888

Fax No:- +44 (0) 1536 401588

2. **Composition/information on ingredients:**

**Chemical characterization**

**CAS No**      **Description**

877-24-7      Potassium hydrogen phthalate

**Identification number(s)**

**EINECS Number:** 2128894

3. **Hazards identification**

**Hazard description:** Not applicable.

**Information concerning to particular hazards to man and environment:**

Not applicable.

4. **First-aid measures**

1. **Eye contact:** Rinse opened eye for several minutes under running water.
2. **Inhalation:** Supply fresh air consult doctor in case of complaints.
3. **Skin contact:** Generally the product does not irritate the skin.
4. **Ingestion:** If systems persist consult doctor.
5. **General information:** No special measures required.

5. **Fire-fighting measures**

- 1 **Special Risks**
- 2 **Suitable extinguishing agents:** CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 3 **Protective equipment:** No special measures required.

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**Product Name :**

**Buffer Capsule pH 4.01 ± 0.02 @ 25°C**

**6. Accidental release measures**

**Person-related safety precautions:** Not required

**Measures for environmental protection:**

No special measures required.

**Measures for cleaning/collecting:**

Pick up mechanically.

**Additional information:**

No dangerous substances are released.

**7. Handling and storage**

**Handling:**

**Information for safe handling:**

No special measures required.

**Information about fire - and explosion protection:**

No special measures required.

**Storage:**

**Requirements to be met by storerooms and receptacles:**

No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

**Storage class:**

**Class according to regulation on flammable liquids:** Void

**8. Exposure controls/personal protection**

**Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:**

No required.

**Additional information:** The lists valid during the making were used as basis.

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required.

**Skin protection:** Not required.

**Eye protection:** Not required.

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**Product Name:**

**Buffer Capsule pH 4.01 ± 0.02 @ 25° C**

**9. Physical and chemical properties:**

- a) **Form:** Solid
- b) **Colour:** According to product specification
- c) **Odour:** Odourless
- d) **Melting temperature:** Undetermined
- e) **Boiling temperature:** Undetermined
- f) **Density at 20°C:** 1g/cm<sup>3</sup>
- g) **Solubility in/Miscibility with water:** Soluble.
- h) **Flash point:** Not applicable.
- i) **Flammability (solid, gaseous):** Product is not flammable.
- j) **Danger of Explosion:** Product does not present an explosion hazard.
- k) **pH-value at 20°C:** 4.0
- l) **Solvent content:**  
**Organic solvents:** 0.0%

**10. Stability and reactivity**

**Thermal decomposition/conditions to be avoided:**

No decomposition if used according to specifications.

**Dangerous reactions:**

No dangerous reactions known.

**Dangerous decomposition products:**

No dangerous decomposition products known.

**11. Toxicological information:**

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional Toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

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<b><u>Product Name :</u></b> Buffer Capsule pH 4.01 ± 0.02 @ 25° C
12. <b><u>Ecological information</u></b>  <b>General notes:</b> Generally not hazardous for water.
13. <b><u>Disposal considerations</u></b>  <b>Product Recommendation:</b> Small quantities can be disposed of with household waste. <b>Uncleaned packaging:</b> <b>Recommendation:</b> Disposal must be made according to official regulations. <b>Recommended cleansing agents:</b> Water, if necessary together with cleansing agents.
14. <b><u>Transport information</u></b>  <b>Land transport ADR/RID (cross-border)</b> <b>ADR/RID class:</b> -  <b>Maritime transport IMDG:</b> <b>IMDG Class:</b> - <b>Marine pollutant:</b> No  <b>Air transport ICAO-TI and IATA-DGR</b> <b>CAO/IATA Class:</b> -  <b>Transport/Additional information:</b> Not dangerous according to the above specifications.
15. <b><u>Regulatory information</u></b>  <b>Labelling according to EU guidelines:</b> The substance is not subject to classification according to EU lists and other sources of literature known to us. Observe the general safety regulations when handling chemicals.  <b>National regulations:</b>  <b>Classification according to VbF:</b> Void  <b>Waterhazard class:</b> Generally not hazardous for water.
16. <b><u>Other information</u></b>  <b>Date of Issue</b>  <b>Date of Print</b>

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RS CHIP3 MSDS Date 01/09/03

1. **Identification of the substance/preparation and of the company/undertaking**

**Catalogue Number:** RS 205-081

**Product Name:** Buffer Capsule pH 7.00 ± 0.02 @ 25°C

**Manufacturer/Supplier Identification:**

RS Components Ltd,  
Birchington Road,  
Corby,  
Northants,  
NN17 9RS

Tel No:- +44 (0) 1536 402888

Fax No:- +44 (0) 1536 401588

2. **Composition/information on ingredients:**

**Chemical characterization**

Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

Void

3. **Hazards identification**

**Hazard description:** Not applicable.

**Information concerning to particular hazards to man and environment:**

Not applicable.

**Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4. **First-aid measures**

1. **Eye contact:** Rinse opened eye for several minutes under running water.
2. **Inhalation:** Supply fresh air consult doctor in case of complaints.
3. **Skin contact:** Generally the product does not irritate the skin.
4. **Ingestion:** If systems persist consult doctor.
5. **General information:** No special measures required.

5. **Fire-fighting measures**

- 1 **Suitable extinguishing agents:** CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 2 **Protective equipment:** No special measures required.

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**Product Name :**

**Buffer Capsule pH 7.00 ± 0.02 @ 25°C**

**6. Accidental release measures**

**Person-related safety precautions:** Not required

**Measures for environmental protection:**

Do not allow to enter sewers/surface or ground water.

**Measures for cleaning/collecting:**

Pick up mechanically.

**Additional information:**

No dangerous substances are released.

**7. Handling and storage**

**Handling:**

**Information for safe handling:**

No special measures required.

**Information about fire - and explosion protection:**

No special measures required.

**Storage:**

**Requirements to be met by storerooms and receptacles:**

No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

**Storage class:**

**Class according to regulation on flammable liquids:** Void

**8. Exposure controls/personal protection**

**Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required.

**Skin protection:** Not required.

**Eye protection:** Not required.

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**Product Name:**

**Buffer Capsule pH 7.00 ± 0.02 @ 25° C**

**9. Physical and chemical properties:**

- a) **Form:** Solid
- b) **Colour:** Colourless
- c) **Odour:** Odourless
- d) **Melting temperature:** Undetermined
- e) **Boiling temperature:** Undetermined
- f) **Density at 20°C:** 1.000g/cm<sup>3</sup>
- g) **Solubility in/Miscibility with water:** Soluble.
- h) **Flash point:** Not applicable.
- i) **Self-igniting:** Product is not self igniting
- j) **Danger of Explosion:** Product does not present an explosion hazard.
- k) **pH-value at 20°C:** 7.0
- l) **Solvent content:**  
**Organic solvents:** 0.0%

**10. Stability and reactivity**

**Thermal decomposition/conditions to be avoided:**

No decomposition if used according to specifications.

**Dangerous reactions:**

No dangerous reactions known.

**Dangerous decomposition products:**

No dangerous decomposition products known.

**11. Toxicological information:**

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional Toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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<b><u>Product Name:</u></b> Buffer Capsule pH 7.00 ± 0.02 @ 25° C	
12.	<b><u>Ecological information</u></b>  <b>General notes:</b> Water hazard class 1 (German Regulation) (Self-assessment) : slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
13.	<b><u>Disposal considerations</u></b>  <b>Product Recommendation:</b> Smaller quantities can be disposed of with household waste. <b>Uncleaned packaging:</b> <b>Recommendation:</b> Disposal must be made according to official regulations. <b>Recommended cleansing agents:</b> Water, if necessary together with cleansing agents.
14.	<b><u>Transport information</u></b>  <b>Land transport ADR/RID (cross-border)</b> <b>ADR/RID class:</b> -  <b>Maritime transport IMDG:</b> <b>IMDG Class:</b> - <b>Marine pollutant:</b> No  <b>Air transport ICAO-TI and IATA-DGR</b> <b>CAO/IATA Class:</b> -  <b>Transport/Additional information:</b> Not dangerous according to the above specifications.
15.	<b><u>Regulatory information</u></b>  <b>Labelling according to EU guidelines:</b> Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV)  <b>National regulations:</b>  <b>Classification according to VbF:</b> Void  <b>Waterhazard class:</b> Water hazard class 1 (Self-assessment) : slightly hazardous for water.



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<b><u>Product Name:</u></b>	<b>Buffer Capsule pH 7.00 ± 0.02 @ 25°C</b>
16. <b><u>Other information</u></b>	
<b>Date of Issue</b>	
<b>Date of Print</b>	