

SAFETY DATA SHEET

In accordance with Regulation (EU) No. 2015/830 and Regulation (EC) No. 1272/2008

Buffer Solution pH 2

Product Code	Product Details	Product Size/Volume
PEB604-02	pH 2 Buffer Solution, NIST Traceable	1 litre

1 – Identification of the substance/mixture and of the company/undertaking

1.1 Product identification

Trade name	0845
Substance name	Buffer Solution pH 2, Colour Coded Green (Hydrochloric Acid)
CAS-No.	Mixture
REACH reg-No.	N/A

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

Use material	Chemical for industrial and laboratory use. Not suitable for domestic use.
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1.3 – Details of the supplier of the safety data sheet

Company	Klipspringer Ltd
Address	Rynor House, Farthing Road, Ipswich, IP1 5AP
Telephone	01473 461 800
Email	sales@klipspringer.com

1.4 – Emergency telephone number

Emergency telephone	Guy Bush, 07780 493433
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2 – Hazards identification

2.1 – Classification of the substance or mixture

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

Not classified as hazardous.

2.2 – Label elements

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

Not classified as hazardous.

3 – Composition/information on ingredients

3.2 – Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Hydrochloric acid	7647-01-0	231-595-7	01-2119484862-27-XXXX	<0.1%	Skin Corr. 1A, STOT SE 3 (I)

4 – First aid measures

4.1 – Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists, OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.
Inhalation	Remove from exposure.
Ingestion	Wash out the patient's mouth thoroughly with water.
Personal protection for first aiders	Wear protective gloves / eye protection.

4.2 – Most important symptoms and effects, both acute and delayed

Symptoms	No further information available.
Effects	No further information available.

4.3 – Indication of immediate medical attention and special treatment needed

Treatment	No further information available.
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5 – Fire-fighting measures

5.1 – Extinguishing media

Suitable extinguishing media	Consider what other flammable materials are present and act accordingly.
Unsuitable extinguishing media	Nothing specified.

5.2 – Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	Presents no specific fire danger.
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5.3 – Advice for fire-fighters

Special protective equipment for fire-fighters	Consider all other materials in the vicinity.
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6 – Accidental release measures

6.1 – Accidental release measures

Personal precautions	Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.
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6.2 – Environmental precautions

Environmental precautions	Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
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6.3 – Methods and materials for containment and cleaning up

Major spillage	Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.
Minor spillage	Wash area down with copious amounts of water.

6.4 – Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

7 – Handling and storage

7.1 – Precautions for safe handling

Precaution for safe handling	Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.
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7.2 – Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Well ventilated, cool, dry storage.
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7.3 – Specific end uses

Specific use(s)	See section 1.2.
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8 – Exposure controls/personal protection

8.1 – Control parameters

Component	CAS No.	Conc w/w	Workplace Exposure Limits			
			Long term (8 hr TWA)		Short term (15 min period)	
Hydrochloric acid	7647-01-0	<0.1%	1.0 ppm	2.0 mg/m-3	5.0 ppm	8.0mg/m-3

Exposure data source(s) IOELV : Indicative Occupational Exposure Limit Value.

8.2 – Exposure controls

Respiratory protection	Presents no significant inhalation health hazard.
Hand protection	Wear gloves.
Eye protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin protection	If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special hazards	No special precautions required.

9 – Physical and chemical properties

9.1 – Information on basic physical and chemical properties

Appearance	Green solution.
Odour	No specific odour.
pH value	2
Melting point	Not applicable.
Boiling point	Not available.

Flash point	Not applicable.
Upper flammability limit	Not applicable.
Lower flammability limit	Not applicable.
Auto ignition	Not applicable.
Explosive properties	No.
Oxidising properties	No.
Vapour pressure	Not applicable.
Relative density	Not available.
Water solubility	Not available.

9.2 – Other information

Other information	No data available.
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10 – Stability and reactivity

10.1 – Reactivity

Reactivity	No data available.
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10.2 – Chemical stability

Chemical stability	Stable under normal conditions.
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10.3 – Possibility of hazardous reactions

Possibility of hazardous reactions	No data available.
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10.4 – Conditions to avoid

Conditions to avoid	No specific conditions.
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10.5 – Incompatible materials

Incompatible materials	No specific materials to avoid.
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10.6 – Hazardous decomposition products

Hazardous decomposition products	Will decompose to emit toxic and irritant fumes of hydrogen chloride.
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11 – Toxicological information

11.1 – Information on toxicological effects

Eyes	The liquid may be irritating to the eyes.
Skin	Presents no significant hazard by skin contact.
LD50 Skin	Not available.
Ingestion	Presents no significant hazard by ingestion.
LD50 Oral	Not available.
Inhalation	Presents no significant health hazard by inhalation.
LD50 Inhalation	Not available.
TCLo	Not available.
Carcinogenicity	Not considered to be carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive effects	None identified.

12 – Ecological information

12.1 –

Toxicity	No specific environmental hazard.
LC50 Algal	Not available.
LC52 Crustacea	Not available.
LC50 Fish	Not available.

12.2 – Persistence and degradability

Persistence and degradability	No data available.
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12.3 – Bio accumulative potential

Bio accumulative potential	No data available.
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12.4 – Mobility in soil

Mobility in soil	No data available.
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12.5 – Results of PBT and vPvB assessment

PBT	Assessment not required.
vPvB	Assessment not required.

12.6 – Other adverse effects

Other adverse effects	None known at present.
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13 – Disposal considerations

13.1 – Waste treatment methods

Disposal method	Neutralise with lime water or sodium hydroxide prior to disposal. Flush to drain.
Contaminated packaging	Wash out containers with water. Use a licensed waste disposer.

14 – Transport information

14.1 – UN-Number

UN-Number	Non-restricted.
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14.2 – Proper shipping name

Proper shipping name	Non-restricted.
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14.3 – Transport classes

UN classification	None.
Subsidiary hazard(s)	None.

Transport category	None.
ADR Hazard ID	Non-restricted.
Tunnel Restriction Code	Non-restricted.

14.4 – Packaging group

Packaging group	None.
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14.5 – Environmental hazards

Environmental hazards	See section 12.
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14.6 – Special precautions for user

Special precautions for user	No special precautions required.
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14.7 – Transport in bulk

Transport in bulk	Not transported in bulk.
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15 – Regulatory information

15.1 – Safety, health and environmental regulations specific for the substance or mixture.

Not classified as hazardous under classification, labelling & packaging of substance & mixtures regulations (1272/2008/CE).

15.2 – Chemical safety assessments

Chemical safety assessments	Assessment not required.
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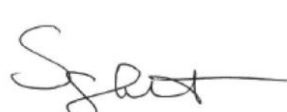
16 – Other information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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Supplier/Importer	Klipspringer Ltd
Address	Rynor House, Farthing Road, Ipswich, Suffolk, UK. IP1 5AP
Telephone	+44 (0) 1473 461 800
Email	sales@klipspringer.com
Website	www.klipspringer.com

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Sheena Britton Technical Compliance Manager Klipspringer 10-02-22		Date of Issue	10-02-2022
		Authorised by	S. Britton
		Revision No.	001
		Revised by	S. Smith