HURST SCIENTIFIC

Safety Data Sheet
Buffer Solution pH 10

SECTION 1: Identification

GHS Product identifier

Product name	Buffer Solution pH 10
Product number	BUF10
Brand	Hurstchem

Recommended use of the chemical and restrictions on use

Laboratory Reagent

Supplier's details

Name	Hurst Scientific
Address	2 Transit Place 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

Emergency phone number

Australian Poisons Information Centre 131 126
Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG). Classified as non Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 8

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Mixtures

Components

1. Disodium tetraborate, anhydrous

Concentration	< 0 - 10 %
EC no.	215-540-4
CAS no.	1330-43-4

2. Sodium hydroxide

Concentration	< 0 - 1 %
EC no.	215-185-5
CAS no.	1310-73-2

3. Water

Concentration	Not specified
EC no.	231-791-2
CAS no.	7732-18-5

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	Evacuate to fresh air immediately. Seek medical attention. If unconscious place in recovery position, provide artificial respiration if breathing ceases.
In case of skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.
In case of eye contact	Flush eyes with copious amounts of water for at least 15 minutes. If irritation develops or persists, seek medical attention.
If swallowed	DO NOT induce vomiting. If a small amount has been swallowed, dilute the stomach by consuming copious amounts of water. For large volumes seek immediate medical attention.

Most important symptoms/effects, acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary
For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Water spray, Carbon dioxide, dry chemical powder or appropriate foam

Specific hazards arising from the chemical
Product will not burn or support combustion. Decomposition products include oxides of phosphorus.

Special protective actions for fire-fighters
Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Do not allow to enter waterways. Restrict access to area. Remove chemicals that can react with the spilled material.

Methods and materials for containment and cleaning up
Absorb with vermiculite or similar and place into a suitably labelled container. Dispose of waste according to local authority guidelines. Wash the affected area with a large volume of water. Do not contaminate drains or waterways.

SECTION 7: Handling and storage

Precautions for safe handling
Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Conditions for safe storage, including any incompatibilities
Store sealed in original container away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls
Not required with normal use.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Safety glasses or goggles.

Skin protection
Chemical-resistant gloves and laboratory coat.

Environmental exposure controls
Biological Limit Values Not available for this product.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Color	Clear or Coloured with Dye
Odor	Nil
Melting point/freezing point	0
Boiling point or initial boiling point and boiling range	100°C
Flammability	Not flammable
Lower and upper explosion limit/flammability limit	Not flammable
Flash point	Not flammable
pH	10

Solubility	Water Soluble
Vapor pressure	No Data Available
Evaporation rate	No Data Available
Density and/or relative density	1

Supplemental information regarding physical hazard classes
No Data Available

SECTION 10: Stability and reactivity

Reactivity
Non-reactive under recommended conditions for use and storage.

Chemical stability
Stable under recommended conditions for use and storage.

Possibility of hazardous reactions
Polymerisation will not occur.

Conditions to avoid
Heat and strong sunlight incompatibles.

Incompatible materials
Alkalis and acids.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Swallowed : May cause irritation of the gastric system. Ingestion of large quantities may cause severe vomiting, diarrhoea, shock or death. For sodium tetraborate LDLo : oral infant 1000mg/kg ,oral man 709mg/kg LD50 oral rat 2660mg/kg

Skin corrosion/irritation
May irritate skin tissue. May be harmful by skin absorption

Serious eye damage/irritation
May be irritating to eye tissue. For sodium hydroxide 500mg applied to rabbit skin produced severe irritation after 24 hours.

Respiratory or skin sensitization
May be irritating to the skin

Germ cell mutagenicity
No data available.

Reproductive toxicity
No data available.

Specific target organ toxicity (STOT) - single exposure
No data available.

Aspiration hazard
No data available.

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability
No data available.

Mobility in soil
No data available.

Other adverse effects
No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Dispose of in accordance with local authority guidelines.

Packaging disposal
Dispose of in accordance with local authority guidelines.

Waste treatment
Dispose of in accordance with local authority guidelines.

SECTION 14: Transport information

UN Number	None
UN Proper Shipping Name	None
Transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

SECTION 16: Other information

Further information/disclaimer
This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

Preparation information
References
1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Canprint: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).