Materials Safety Data Sheet

Part No. 025-178/181, 10pH Buffer Sachet

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

Product details: pH buffer in sachet
Product name: **Buffer Solution 10pH ± 0.01 @ 25°C**
Part number: 025 178 and 025 181
Supplier:

Jenway
Gransmore Green
Felsted
Dunmow
Essex
CM6 3LB
England

Telephone: + 44 (0)1371 820122
Fax: + 44 (0)1371 821083
Email: health.safety@jenway.com

Further information obtainable from: Health & Safety.

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation:
Description: Mixture of the substances listed below with non-hazardous additions.

Component	CAS Number	Percent Concentration
Sodium Carbonate	497-19-8	<1
Sodium Bicarbonate	144-55-8	<1
Preservative*	Proprietary	<0.1
Inert Dye	Proprietary	<0.1
Deionised Water	7732-18-5	balance

* No mercury compounds or formaldehyde
Additional information: For the wording of the listed risk phrases refer to section 16.

3.0 HAZARDS IDENTIFICATION

Hazard Description: Not applicable
Information pertaining to particular hazards to man and environment:
The product does not have to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.
Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4.0 FIRST AID MEASURES

General Information:
No special measures required.
After inhalation:
Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.
After skin contact:
Flush with plenty of water for at least 15 minutes. Call a doctor if irritation develops.
After eye contact:
Irrigate immediately with large quantity of water for at least 15 minutes. Call a doctor if irritation develops.
After swallowing:
Dilute with water or milk. Call a doctor if necessary.
Potential Health Effects:
Target Organs: eyes, skin
Eye Contact: May cause slight irritation
Inhalation: Not likely to be hazardous by inhalation
Skin contact: May cause slight irritation

Ingestion: Large doses may cause nausea, vomiting, diarrhoea and cramps.

5.0 FIRE FIGHTING MEASURES

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

6.0 ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:
Not required.
Measures for environmental protection:
Dilute with plenty of water.
Measures for cleaning/collecting:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Additional information:
No dangerous materials are released.

7.0 HANDLING AND STORAGE

Handling: PPE to be worn. See section 8
Information for safe handling:
Wash hands thoroughly after handling. Avoid contact with eyes and skin.
Information about fire and explosion protection:
No special measures required.
Storage:
Requirements to be met by storerooms and receptacles:
Protect from freezing and physical damage.
Information about storage in one common facility:
Not required.
Further information about storage conditions:
None.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities:
No further data; see section 7.
Additional information:
The lists that were valid during the compilation were used as basis.
Engineering Control: No specific controls are needed. Normal room ventilation is adequate.
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures should be adhered to general rules for handling chemicals.
Respiratory protection:
Normal room ventilation is adequate.
Protection of hands:
Chemical resistant gloves
Eye protection:
Safety glasses or goggles.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Colour: Blue
Odour: Odourless

Melting point/Melting range:	$0^{o}C$
Boiling point/Boiling range:	100°C
Density at 20°C	$1.0g/cm^{3}$
Solubility in/Miscibility with water:	Fully miscible
pH:	10

10.0 STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use and storage.
Incompatibility: Acids
Hazardous Decomposition Products: Oxides of Sodium
Hazardous Polymerisation: will not occur.

11.0 TOXICOLOGICAL INFORMATION

LD50, Oral, Rat: 4090 mg/kg (Sodium carbonate), 4220 mg/kg (Sodium Bicarbonate), details of toxic effects not reported other than lethal dose value.

12.0 ECOLOGICAL INFORMATION

Ecotoxicological Information: No information found.

Chemical Fate Information: No information found.

13.0 DISPOSAL CONSIDERATIONS

Product:
Recommendation:
Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for disposal with an approved waste disposal facility.
Uncleaned packaging:
Recommendation:
Disposal must be made according to official regulations.
Recommended Cleansing Agents:
Water, if necessary with cleansing agent.

14.0 TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)
ADR/RID-GGVS/E class: -

Maritime transport IMDG:
IMDG Class: -
Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class: -

Transport/ Additional information:
Not dangerous according to the above specifications.

15.0 REGULATORY INFORMATION

Labelling according to EU guidelines:

Observe the normal safety regulations when handling chemicals. The product is not subject to identification regulations under EC Directives/Ordinance on Hazardous Materials (German GefStoffV).

16.0 OTHER INFORMATION

This MSDS should be forwarded immediately to all users of this product within your organisation. If this product is to be re-consigned to another organisation then it is your responsibility to ensure that this MSDS is sent or copied to that organisation. This data sheet must not be construed to be a risk assessment for operations involving this substance. As with any other substance, the user is advised to carry out a risk assessment when working with it. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. No responsibility can be assumed by Jenway for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices.

Department issuing MSDS: Health & Safety