


**Material Safety data sheet  
(PHBS9)  
pH Buffer Solution 9.0pH**

Version number 1.1 – 2025

Revision Date 03/04/2025

<b>1- IDENTIFICATION</b>	
<b>1.1 Product Identifier</b>	
Use of the substance/ preparation	Buffer Solution for pH Calibration, traceable to NIST coloured Blue
Chemical Characteristics	Aqueous Solution containing inorganic components
Product Code	PHBS9
<b>1.2 Relevant identified uses of the substances or mixture and uses advised against.</b>	
Product Use	Calibration of pH electrodes, laboratory chemicals, manufacture of substances, scientific research R&D
<b>1.3 Details of the Supplier of the safety data sheet</b>	
<b>Company</b>	Automated Water & Effluent Ltd
<b>Address</b>	AWE House Antom Court Tollgate Drive Beaconside Stafford ST16 3AF
<b>Telephone</b>	Tel: 01785 254 597
<b>Fax</b>	Email: <a href="mailto:office@awe-ltd.co.uk">office@awe-ltd.co.uk</a>
<b>Email</b>	Web: <a href="http://www.awe-ltd.co.uk">www.awe-ltd.co.uk</a>
<b>Website</b>	
<b>Medical Advice:</b>	National Poisons Information Service
<b>NPIS</b>	<a href="http://www.npis.org">www.npis.org</a>
<b>Emergency Phone (UK)</b>	Tel. 111 (UK)
<b>Emergency (Northern Ireland):</b>	Please contact your local GP Out of hours: <a href="http://www.gpoutofhours.hscni.net">www.gpoutofhours.hscni.net</a>
<b>Emergency Republic of Ireland:</b>	Tel. National Poisons Information Centre on 01 809 2166

<b>2 – HAZARDS IDENTIFICATION</b>	
<b>2.1 Classification of the substance or mixture</b>	
2.1.1 Classification GB MCL List/ 67/548/EEC	-Acute toxicity – Inhalation (Dust/Mist) -Serious eye damage/ eye irritation
2.1.2 Classification GB CLP: EC/1272/2008 (CLP)	H332 Harmful if inhaled H319 Eye irritant
<b>2.2 Label Elements</b>	

Hazard Pictograms	
Signal Word	Warning
Hazard Statement	Causes Serious eye irritation Harmful if inhaled

### 3 – COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances

#### GB MCL List updated and published 17/02/2025

Chemical Name	Cas No.	Weight	Classification	Concentration
Buffer Solution 9pH	144-55-8	N/A	N/A	N/A
Buffer Solution 9pH	497-19-8	N/A	N/A	N/A

### 4 – FIRST AID MEASURES

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Seek medical attention if necessary.
Skin Contact	Wash affected areas thoroughly with soap and water for at least 15 minutes. Get medical attention if necessary.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes; remove contact lenses if present and easy to do so. Persist washing of eye until eye irritation ceases.
Ingestion	Drink plenty of water. Do not induce vomiting without medical advice. Get medical attention if necessary.
General Information	If you feel unwell, seek medical advice and show this document where possible.

### 5 – Fire Fighting Measures

<b>5.1 Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to the product; local circumstances and the surrounding environment.
<b>5.2 Specific Hazards</b>	The product is not flammable.
<b>5.3 Advice for fire fighters</b>	Wear suitable respiratory equipment where possible.

### 6 – ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal Precautions</b>	Use personal protective equipment as required.
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	Keep unnecessary people away; isolate hazard area and deny entry. Restrict access to area until completion of the clean-up. Ensure clean-up is conducted by trained personnel only.
<b>6.2 Environmental Precautions</b>	Do not allow to enter sewers/ surface or ground water.
<b>6.3 Methods for cleaning up</b>	Absorb spill with inert material (eg. Vermiculite, sand or earth), then place in suitable container.

<b>7 – HANDLING &amp; STORAGE</b>	
<b>7.1 Precautions for safe handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust. Ensure adequate ventilation of the working area.
<b>7.2 Precautions for safe storage including any incompatibilities</b>	Store in a cool, dry place. Store in a tightly closed container.
<b>7.3 Precautionary Statement – Prevention</b> <b><u>P261; P262; P264; P270; P271; P280; P284</u></b>	Avoid breathing mist/ vapour/ spray. Use in well ventilated area. Wash hands and any exposed skin after handling. Wear eye/face protection.
<b>Precautionary Statement – Response</b> <b><u>P305+ P351 + P338</u></b> <b><u>P337 + P313</u></b> <b><u>P304+P340</u></b>	IF IN EYES – Rinse cautiously with water for several minutes. Remove contact lenses, if present, and continue to rinse. Get medical advise if eye irritation persists. IF INHALED – remove victim to fresh air and keep at rest, in a position comfortable for breathing. Get medical help if unwell.

<b>8 – EXPOSURE CONTROLS / PERSONAL PROTECTION</b>		
8.1 Control Parameters		
8.1.1 Exposure Limit Values		
Buffer Solution 9pH CAS No. 144-55-8 CAS No. 497-19-8	Long Term (8hr TWA)	Short Term (15 minute period STEL)
ppm	N/A	N/A
Mg/M <sup>3</sup>	N/A	N/A
<b>8.2 Exposure Controls</b>		
Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust. Ensure adequate ventilation of the working area.	
<b>Eye / Face Protection</b> Standard EN 166 (EU)	Wear appropriate protective eyeglasses or chemical safety goggles. (Contact lenses are not eye protective devices.)	
<b>Skin / Hand Protection</b> Standard EN 374 (EU)	Wear chemically protective gloves, boots and aprons, to prevent prolonged or repeated contact.	



<b>13 – DISPOSAL CONSIDERATIONS</b>	
General Information	Dispose of in accordance with local regulations.
Disposal Methods	Contact a licensed waste disposal company. Dispose of this material and its container using a hazardous or specialist or waste collection point.
<b>14 – TRANSPORT INFORMATION CONSIDERATIONS</b>	
ARD/RID 14.1 UN Number ADR/RID: IMDG IATA 14.2 UN Proper shipping name: Buffer Solution Blue pH9 14.3 Transport hazard class(es): N/A 14.4 Packing Group: 14.5: Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no	
<b>15 – REGULATORY INFORMATION</b>	
15.1 Safety, health and environmental regulations/ legislation specific for the	
Regulations	Labelling according to Regulation: GB CLP/ EC No. 1272/2008 (CLP)
<b>16 – OTHER INFORMATION</b>	
Recommended use	For industrial and laboratory applications only.
Text of risk phrases in Section 3	H332 Harmful if inhaled.
Text of hazard phrases in Section 3	H319 Causes serious eye irritation.

*The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. Automated Water & Effluent Ltd., AWE Instruments and AWE Direct, or any other subsidiary will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.*