

**Safety data sheet**  
**according to UK REACH (SI 2020/1577) as amended**

Printing date 29.03.2025

Version number 3 (replaces version 2)

Revision: 29.03.2025

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\* **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

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· **1.1 Product identifier**

· **Trade name: PAK 1**

· **CAS Number:**  
144-55-8

· **EC number:**  
205-633-8

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

· **Product category** PC37 Water treatment chemicals

· **Application of the substance / the mixture** Water treatment

· **Uses advised against** Processes involving the use of incompatible substances - refer to section 10.

· **1.3 Details of the supplier of the safety data sheet**

· **Supplier:**  
All Swim Ltd  
Link Trade Park  
Penarth Road  
Cardiff  
CF11 8TQ

Tel: 029 20705059  
sales@allswimltd.com

· **Further information obtainable from:** Product safety department.

· **1.4 Emergency telephone number:**

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

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**SECTION 2: Hazards identification**

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· **2.1 Classification of the substance or mixture**

· **Classification according to GB-CLP** The substance is not classified, according to the GB CLP regulation.

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· **2.2 Label elements**

· **Labelling according to GB-CLP** Not applicable

· **Hazard pictograms** Not applicable

· **Signal word** Not applicable

· **Hazard statements** Not applicable

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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**Trade name: PAK 1**

(Contd. of page 1)

\* **SECTION 3: Composition/information on ingredients**

- **3.1 Substances**
- **CAS No. Description**  
CAS: 144-55-8 Sodium bicarbonate
- **Identification number(s)**
- **EC number:** 205-633-8

\* **SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:**  
Check for and remove any contact lenses.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **Information for doctor:** Treat symptomatically and supportively.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

\* **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon dioxide (CO<sub>2</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Wear self-contained respiratory protective device.
- **Additional information**  
Soluble in water.

(Contd. on page 3)

GB

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(Contd. of page 2)

Cool endangered receptacles with water spray.

\* **SECTION 6: Accidental release measures**

· **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust.

Ensure adequate ventilation

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course in the undiluted form.

· **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

\* **SECTION 7: Handling and storage**

· **7.1 Precautions for safe handling**

Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

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

Do not store in aluminium or galvanised containers.

Prevent any seepage into the ground.

· **Information about storage in one common storage facility:** Do not store together with acids.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

· **Storage class:** 11

· **7.3 Specific end use(s)** No further relevant information available.

\* **SECTION 8: Exposure controls/personal protection**

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:** Not required.

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

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

(Contd. on page 4)

GB

## Safety data sheet

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**Trade name: PAK 1**

(Contd. of page 3)

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures:**

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

Wash hands before breaks and at the end of work.

Avoid close or long term contact with the skin.

Avoid contact with the eyes.

Do not eat, drink, smoke or sniff while working.

Do not breathe dust

- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

- **Hand protection**



For prolonged contact, use protective gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

PVC gloves

Natural rubber, NR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection**



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

- **Body protection:**



Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

## \* SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Solid

- **Colour:**

White

(Contd. on page 5)

— GB —

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Revision: 29.03.2025

Trade name: PAK 1

(Contd. of page 4)

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>Odour:</b></li> <li>· <b>Odour threshold:</b></li> <li>· <b>Melting point/freezing point:</b></li> <li>· <b>Boiling point or initial boiling point and boiling range</b></li> <li>· <b>Flammability</b></li> <li>· <b>Flash point:</b></li> <li>· <b>pH</b></li> <li>· <b>Solubility</b></li> <li>· <b>water at 20 °C:</b></li> <li>· <b>Vapour pressure:</b></li> <li>· <b>Density and/or relative density</b></li> <li>· <b>Density at 20 °C:</b></li> <li>· <b>Bulk density at 20 °C:</b></li> </ul>  | <p>Odourless</p> <p>Not determined.</p> <p>270 °C</p> <p>Undetermined.</p> <p>Product is not flammable.</p> <p>Not applicable.</p> <p>8.1 – 8.4 (5%)</p> <p></p> <p>93.4 g/l</p> <p>Not applicable.</p> <p></p> <p>2.2 g/cm<sup>3</sup></p> <p>700-1.150 kg/m<sup>3</sup></p>   |
| <ul style="list-style-type: none"> <li>· <b>9.2 Other information</b></li> <li>· <b>Appearance:</b></li> <li>· <b>Form:</b></li> <li>· <b>Important information on protection of health and environment, and on safety.</b></li> <li>· <b>Explosive properties:</b></li> <li>· <b>Molecular weight</b></li> </ul>  | <p>NOTE: The physical data presented above are typical values and should not be construed as a specification.</p> <p></p> <p>Powder</p> <p></p> <p>Product does not present an explosion hazard.</p> <p>84.01 g/mol</p>   |
| <ul style="list-style-type: none"> <li>· <b>Information with regard to physical hazard classes</b></li> <li>· <b>Explosives</b></li> <li>· <b>Flammable gases</b></li> <li>· <b>Aerosols</b></li> <li>· <b>Oxidising gases</b></li> <li>· <b>Gases under pressure</b></li> <li>· <b>Flammable liquids</b></li> <li>· <b>Flammable solids</b></li> <li>· <b>Self-reactive substances and mixtures</b></li> <li>· <b>Pyrophoric liquids</b></li> <li>· <b>Pyrophoric solids</b></li> <li>· <b>Self-heating substances and mixtures</b></li> <li>· <b>Substances and mixtures, which emit flammable gases in contact with water</b></li> <li>· <b>Oxidising liquids</b></li> <li>· <b>Oxidising solids</b></li> <li>· <b>Organic peroxides</b></li> <li>· <b>Corrosive to metals</b></li> <li>· <b>Desensitised explosives</b></li> </ul> | <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> |

— GB —

(Contd. on page 6)

## Safety data sheet

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Version number 3 (replaces version 2)

Revision: 29.03.2025

Trade name: PAK 1

(Contd. of page 5)

#### \* SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with acids.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

#### \* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

##### · **LD/LC50 values relevant for classification:**

CAS: 144-55-8 Sodium bicarbonate

|      |      |                     |
|------|------|---------------------|
| Oral | LD50 | > 4,000 mg/kg (rat) |
|------|------|---------------------|

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:** Prolonged or repeated skin contact may irritate and cause dermatitis.
- **Additional toxicological information:**  
A nuisance-causing concentration of airborne particles can be reached quickly when dispersed, especially if powdered.
- **11.2 Information on other hazards**

##### · **Endocrine disrupting properties**

Substance is not listed.

#### \* SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Inorganic substance: not applicable

(Contd. on page 7)



**Safety data sheet**  
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**Trade name: PAK 1**

(Contd. of page 6)

- **12.3 Bioaccumulative potential** Product is not expected to bioaccumulate.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

\* **SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
Recommended Hierarchy of Controls:
  - Minimise waste;
  - Reuse if not contaminated;
  - Recycle, if possible; or
  - Safe disposal (if all else fails).Contact waste processors for recycling information.  
Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.
- **Uncleaned packaging:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.  
Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

\* **SECTION 14: Transport information**

- |                                       |                |
|---------------------------------------|----------------|
| · <b>14.1 UN number or ID number</b>  |                |
| · <b>ADR/RID/ADN, ADN, IMDG, IATA</b> | Not applicable |
| · <b>14.2 UN proper shipping name</b> |                |
| · <b>ADR/RID/ADN</b>                  | UN-            |
| · <b>ADN, IMDG, IATA</b>              | Not applicable |

(Contd. on page 8)

## Safety data sheet

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**Trade name: PAK 1**

(Contd. of page 7)

|   |  |
|---|--|
| · <b>14.3 Transport hazard class(es)</b>                              |  |
| · ADR/RID/ADN, ADN, IMDG, IATA  |  |
| · Class   | Not applicable                                       |
| · <b>14.4 Packing group</b>   |  |
| · ADR/RID/ADN, IMDG, IATA   | Not applicable                                       |
| · <b>14.5 Environmental hazards:</b>                                  |  |
| · Marine pollutant:   | No   |
| · <b>14.6 Special precautions for user</b>                            | Not applicable.                                      |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                            | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>                                       | Not applicable                                       |

## \* SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Poisons Act

### · Regulated explosives precursors

Substance is not listed.

### · Regulated poisons

Substance is not listed.

### · Reportable explosives precursors

Substance is not listed.

### · Reportable poisons

Substance is not listed.

### · Control Of Major Accident Hazards Regulations 2015 (COMAH)

- **Named dangerous substances - ANNEX I** Substance is not listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## \* SECTION 16: Other information

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.

This Safety Data Sheet is supplied on a voluntary basis.

- **Department issuing SDS:** Product safety department.

(Contd. on page 9)

— GB —





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**Trade name: PAK 1**

(Contd. of page 8)

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

· **\* Data compared to the previous version altered.**