



SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: **Alkalinity Builder**
Datasheet Number: SP222 1. 1. 0
Product Part Number: SP222
Chemical Name: Sodium bicarbonate
Synonyms: Sodium hydrogen carbonate
CAS No.: 144-55-8

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

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Total Pool Chemicals Ltd
Address of Supplier: Unit 1, Pool Bank Business Park
High Street, Tarvin
Chester CH3 8JH
UK
Telephone: +44 (0)1829 740290
Fax: +44 (0)1829 741855
Responsible Person: Steve Carder
Email: sales@totalpool.co.uk

1.4 Emergency telephone number

+44 (0)1829 740290 (Office Hours)

2 Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Classification (67/548/EEC, 1999/45/EC)
- Not classified as hazardous for supply

2.2 Label elements

- Not Classified

2.3 Other hazards

- Mildly irritating to respiratory system
-

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases	Symbols	Index No.
Sodium Bicarbonate	99.5	144-55-8	205-633-8			



4 First aid measures

4.1 Description of first aid measures

- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN: Gently wash with plenty of soap and water.
- If skin irritation occurs: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- May cause irritation

4.3 Indication of immediate medical attention and special treatment needed

- None

5 Fire-fighting measures

5.1 Extinguishing media

- This product is not flammable
- In case of fire: use water, alcohol resistant foam or dry agent for extinction

5.2 Special hazards arising from the substance or mixture

- Damp down to avoid dust generation

5.3 Advice for firefighters

- Wear protective clothing as per section 8

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid raising dust
- Wear suitable respiratory protection

6.2 Environmental Precautions

- Damp down to avoid dust generation
- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Collect as much as possible in clean container for reuse or disposal
- Flush spill area with copious amounts of water

6.4 Reference to other sections

- See Section 7 & 8

7 Handling and storage

7.1 Precautions for safe handling

- Avoid raising dust
- Ensure adequate ventilation



7 Handling and storage (....)

- Wash thoroughly after handling.
- Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities

- Opened containers should be carefully resealed and stored in an upright position
- Avoid raising dust
- Avoid contact with water
- Keep container tightly closed.
- Keep in a cool, dry, well ventilated place
- Avoid contact with acid

7.3 Specific end use(s)

- No information available

8 Exposure controls/personal protection

8.1 Control parameters

Sodium Bicarbonate

- The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m³ (8hr TWA) total inhalable dust; 5 mg/m³ (8hr TWA) total respirable dust

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear suitable protective clothing, including eye/face protection and gloves (rubber are recommended)



Respirator



Gloves



Goggles



Suit

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: None
- Appearance: white, powder
- pH 8.5
- decomposes
- Vapour pressure - not applicable
- Vapour density - not applicable
- Melting point 270 °C
- Water solubility 95 g/l
- Fat solubility - not applicable
- Specific gravity 2.2 g/cm³
- Non-combustible solid
- Auto-ignition point - not applicable
- Non-explosive



9 Physical and chemical properties (....)

- Log Pow - not known
- Evaporation rate - not applicable
- Viscosity - not known

9 .2 Other information

- Bulk density 700-1.150 kg/m³

10 Stability and reactivity

10 .1 Reactivity

- Avoid contact with acid
- No decomposition if stored normally.
- Decomposition products may include carbon oxides

10 .2 Chemical stability

- No information available

10 .3 Possibility of hazardous reactions

- Decomposition products may include carbon oxides

10 .4 Conditions to avoid

- Violent reactions with sodium potassium alloy and ammonium hydrogen phosphate

10 .5 Incompatible materials

- Incompatible with acid
- Violent reactions with sodium potassium alloy and ammonium hydrogen phosphate

10 .6 Hazardous Decomposition Products

- Decomposition products may include carbon oxides

11 Toxicological information

11 .1 Information on toxicological effects

- LD50 (oral) : 4220 mg/kg

Inhalation

- May cause irritation

Contact with skin

- May cause irritation

Contact with eyes

- May cause redness and irritation

Ingestion

- No information available

Carcinogenicity

- No evidence of carcinogenic effects



11 Toxicological information (....)

Teratogenicity

- No evidence of reproductive effects

Mutagenicity

- No evidence of mutagenic effects
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12 Ecological information

12 .1 Toxicity

- On available data, substance is not harmful to aquatic life

12 .2 Persistence and degradability

- No information available

12 .3 Bioaccumulation Potential

- Bioaccumulation is insignificant

12 .4 Mobility in soil

- No information available

12 .5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12 .6 Other Adverse Effects

- Presents little or no hazard to the aquatic environment
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13 Disposal considerations

13 .1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Uncontaminated material may be returnable. Contact supplier

Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
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14 Transport information

14.1 UN Number

N/A

14.2 UN Proper Shipping Name

N/A

14.3 Transport hazard class(es)

N/A

14.4 Packing group

N/A

14 .5 Environmental hazards

- Presents little or no hazard to the environment
-



14 Transport information (....)

14 .6 Special precautions for user

- No special precautions are required for this product

14 .7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not hazardous according to current ADR Regulations
- Not hazardous according to current IATA Regulations
- Not hazardous according to current ICAO Regulations
- Not hazardous according to current RID Regulations

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	Not hazardous	ADR UN No.:
ADR Hazard Class:		ADR Packing Group:
Tunnel Code:		

Sea (IMDG)

Proper Shipping Name:	Not hazardous	IMDG UN No.:
IMDG Hazard Class.:		IMDG Pack Group.:

Air (ICAO/IATA)

Proper Shipping Name:	Not hazardous	ICAO Un No.:
ICAO Hazard Class.:		ICAO Packing Group.:

15 Regulatory information

15 .1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- The List of Wastes (England) Regulations 2005 apply in the UK
- Not hazardous according to current CPL Regulations

15 .2 Chemical Safety Assessment

16 Other information

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.