

PAK201

**1. Identification of the substance/preparation and of the company/undertaking**

**1.1 Product Identifier**                      Chemical      Sodium Hydrogen Carbonate / Sodium Bicarbonate  
Trade Name: PAK201 / TA Raiser / TA Increaser

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

Uses:                      To increase total alkalinity of pool water

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

Company:                  Complete Pool Controls Ltd  
Unit 2, The Park  
Stoke Orchard  
Bishops Cleeve  
Gloucestershire  
GL52 7RS

Telephone:                +44 (0) 8712 229081

Fax:                        +44 (0) 8712 229083

E-mail:                    [sales@cpc-chemicals.co.uk](mailto:sales@cpc-chemicals.co.uk)

**1.4 Emergency Telephone**

Tel:                        +44 (0) 8712 229081                      (office hours)                      +44 (0) 1242 300271                      ( outside of office hours)

**2. Hazard Identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Not classified for supply

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008**

EC No.                        205-633-8

Label In Accordance With (EC) No. 1272/2008

**2.3 Other Hazards**

Not Classified as PBT/vPvB by current EU criteria

**3. Composition/information on ingredients**

**3.1 Substances**

SODIUM BICARBONATE

CAS No:	EC No:	Reach Reg	Gross Formula
---------	--------	-----------	---------------

144-55-8	205-633-8	01-2119457606-32-XXXX	CH2O3.Na
----------	-----------	-----------------------	----------

Composition Comments	Purity > 99.0 % w/w
----------------------	---------------------

**4. First Aid measures**

**4.1 Description of first aid measures**

General Advice:                      Immediately remove contaminated clothing

If inhaled:                              Remove to fresh air. Rinse nose and mouth with water. Consult doctor in case of complaints

In case of skin contact:              Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

In case of eye contact:                Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. Remove contact lenses. Seek medical attention immediately

If swallowed:                            Rinse mouth with water and then drink plenty of water. Seek medical attention & show the label where possible.

#### 4. First Aid measures

##### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No further information available  
Effects: No further information available

##### 4.3 Indication of immediate medical attention and special treatment needed

Treatment: No recommendation given, but first aid may still be required in case of accidental exposure,

#### 5. Fire fighting measures

##### 5.1 Extinguishing media:

Extinguishing media: This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

##### 5.2 Special hazards arising from the substance or mixture

Specific Hazards : When heated and in case of fire, irritating vapours/gases may be formed

##### 5.3 Advice for fire-fighters

Protective equipment: Follow the general fire precautions indicated in the workplace

#### 6. Accidental release Measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Avoid inhalation of dust. Avoid contact with skin and eyes. Provide adequate ventilation

##### 6.2 Environmental precautions

Environmental precautions: Prevent entry into drains

##### 6.3 Methods and materials for containment and cleaning up

Clean-up procedures: Dispose of contaminated material as waste. Ensure adequate ventilation. Collect mechanically.

##### 6.4 Reference to other sections

See Section 8 for information on Personal protective equipment  
See section 13 for waste treatment information

#### 7. Handling and storage

##### 7.1 Precautions for safe handling

Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Avoid handling which leads to dust formation. Provide good ventilation. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

##### 7.2 Conditions for safe storage, including any incompatibilities.

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Store at temperature below 50°C.

Advice on common storage: Do not store near acids  
Storage Temperature: Protect from frost.

##### 7.3 Specific end uses

No information available

Trade Name: PAK201 / TA Raiser / TA Increaser

## 8. Exposure control/personal protection

**8.1 Control parameters** None assigned

### 8.2 Exposure controls

**Engineering measures** Engineering controls should be provided which maintain airborne concentrations as low as practicable

#### Personal protective equipment

**Respiratory protection** No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m<sup>3</sup>. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2). EN149.

**Hand protection** Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

**Eye protection** Wear safety glasses approved to standard EN 166.

**Skin and body protection** Wear apron or other light protective clothing

#### Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form: Powder  
Colour: White  
Odour: No Odour

pH @ 20°C: Diluted Solution 8 @ 5 %

Boiling point: Not determined

Melting Point 270°C

Relative density @ 20°C 2.2

Evaporation Rate Not applicable

Viscosity Not relevant

Solubility Value (G/100G H<sub>2</sub>O@20°C) 9.5

Decomposition temperature (°C) 50°C

Flash point (°C) Not applicable

Flammability Limit - Lower(%) The product has no flammability, explosive or self-inflammability properties.

Flammability Limit - Upper(%) Not applicable

Partition Coefficient (N-Octanol/Water) Not Applicable - Inorganic chemical.

Oxidising properties Does not meet the criteria for oxidising

### 9.2 Other Information

Mol. Weight 85

## 10. Stability and reactivity

### 10.1 Reactivity

Reactivity Reaction with acids

### 10.2 Chemical stability

Chemical stability Stable under normal use and storage conditions

### 10.3 Possibility of hazardous reactions

Hazardous reactions: Will not polymerise

Trade Name: PAK201 / TA Raiser / TA Increaser

## 10. Stability and reactivity

### 10.4 Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Water, moisture.

### 10.5 Incompatible materials

Materials to avoid Strong acids. Strong oxidising substances

### 10.6 Hazardous decomposition products

Haz. decomp. products: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity

Route	Species	Time	Test	Value	Units
Oral	Rat	-	LD50	>4220	mg/kg
Inhalation	Rat	4 hrs	LD50	>4.74	mg/l

EPA-FIFRA 40 CFR 160.

EPA OTS 798.1150.

#### Skin Corrosion/Irritation:

Erythema\eschar score No erythema (0).

Oedema score No oedema (0).

REACH dossier information OECD 404 Not Irritating. Based on available data the classification criteria are not met

#### Serious eye damage/irritation:

REACH dossier information OECD 405. Not Irritating. Based on available data the classification criteria are not met

#### Respiratory or skin sensitisation:

Skin sensitisation Data lacking.

#### Germ cell mutagenicity:

Genotoxicity - In Vitro DNA damage and/or repair:

Negative. Based on available data the classification criteria are not met.

#### Carcinogenicity:

No evidence of carcinogenicity in animal studies. Based on available data the classification criteria are not met.

#### Reproductive Toxicity - Fertility

Scientifically unjustified. No erythema (0).

Reproductive Toxicity - Development No oedema (0).

#### Developmental toxicity: NOAEL > 580 mg/kg/day Oral Mouse

This substance has no evidence of toxicity to reproduction. Based on available data the classification criteria are not met

#### Specific target organ toxicity - repeated exposure:

#### Respiratory or skin sensitisation:

STOT - Repeated exposure Data lacking.

#### Aspiration hazard:

Viscosity Not relevant

General information No specific health warnings noted.

Inhalation Dust in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed

Skin contact  
Eye contact

Powder may irritate skin.  
Particles in the eyes may cause irritation and smarting.

**Trade Name:** PAK201 / TA Raiser / TA Increaser

## 12. Ecological Information

### 12.1 Toxicity

**Etotoxicity effects** Not regarded as dangerous for the environment

#### Acute Toxicity - Fish

LC50 96 hours 7100 mg/l *Lepomis macrochirus* (Bluegill)

REACH dossier information EPA OPP 72-1.

#### Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 4100 mg/l *Daphnia magna*

REACH dossier information EPA OPP 72-2.

#### Chronic Toxicity - Aquatic Invertebrates

NOEC 21 days > 576 mg/l *Daphnia magna*

### 12.2 Persistence and degradability

No concerns based on available literature. The product solely consists of inorganic compounds which are not biodegradable.

### 12.3 Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating

### 12.4 Mobility in soil

The product is soluble in water.

### 12.5 Results of PBT and PvB assessment

Not Classified as PBT/vPvB by current EU criteria.

### 12.6 Other adverse effects

None known

## 13. Disposal Considerations

### 13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Contact specialist disposal companies.

#### Classification

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

## 14. Transport Information

### 14.1 UN Number

Not applicable

### 14.2 UN proper shipping name

Not applicable

### 14.3 Transport hazard class(es)

Not applicable

### 14.4 Packaging Group

Not applicable

### 14.5 Environmental hazards

Clean up even minor leaks or spills if possible without unnecessary risk

### 14.6 Special precautions for user

See Section 7

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.

Guidance Notes

#### Workplace Exposure Limits EH40.

#### EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Water hazard classification

WGK 1

### 15.2 Chemical Safety Assessment

Not applicable as the substance is not classified.

**Trade Name:** PAK201 / TA Raiser / TA Increaser

### 16. Other information

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

█ Indicates updated section.