

SAFETY DATA SHEET

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

1.1 Product Identifier Chemical Sodium Hydrogen Carbonate / Sodium Bicarbonate
Trade Name TA Plus / 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

Restrictions: None known

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

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

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**

Chemical Name	Sodium Bicarbonate
CAS No:	144-55-8
EC No:	205-633-8
Reach Reg	01-2119457606-32-XXXX
Gross Formula	CH ₂ O ₃ .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.

4.2 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, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!
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5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:	This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.
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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
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5.3 Advice for fire-fighters

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

Environmental precautions:	Prevent entry into drains
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6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up:	Dispose of contaminated material as waste. Ensure adequate ventilation. Collect mechanically.
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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

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/m³. 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 H₂O@20°C): 9.5

Trade Name: Spa TA Plus

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

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
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10. Stability and reactivity

10.1 Reactivity	Reaction with acids
10.2 Chemical stability	Stable under normal use and storage conditions
10.3 Possibility of hazardous reactions	Will not polymerise
10.4 Conditions to avoid	Avoid excessive heat for prolonged periods of time. Water, moisture.
10.5 Incompatible materials	Strong acids. Strong oxidising substances
10.6 Hazardous decomposition products	Carbon dioxide (CO ₂). 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	EPA-FIFRA 40 CFR 160.
Inhalation	Rat	4 hrs	LD50	>4.74	mg/l	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.

11. Toxicological Information**11.1 Information on toxicological effects****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	Powder may irritate skin.
Eye contact	Particles in the eyes may cause irritation and smarting.

12. Ecological Information**12.1 Toxicity****Eotoxicity 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.

Trade Name: Spa TA Plus

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.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

Full text of H-statements referred to under sections 2 and 3

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.

Revision	Date	Amendment
5	14/07/14	Section amended

