

TA Plus

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

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) 3712 229084 (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: Use protective equipment appropriate for surrounding materials.

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.

Safe Storage: Store in tightly-closed, original container in a dry, cool and well-ventilated place.
 Store away from incompatible materials (see Section 10).
 Store at temperatures not exceeding 25°C. Do not expose to temperatures exceeding 50°C/122°F.

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 recommendations. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. If ventilation is inadequate, suitable respiratory protection must be worn.
Wear a suitable dust mask. (FFP1/FFP2)
Disposable filtering half mask respirators should comply with European Standard EN149 or EN405.
or
Wear a respirator fitted with the following cartridge: Particulate filter, type P1.
Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
Particulate filters should comply with European Standard EN143

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

<i>Recommended material:</i>	<i>Thickness:</i>
Nitrile rubber.	0.35mm
Rubber (natural, latex).	0.5mm
Butyl rubber.	0.5mm
Polyvinyl chloride (PVC)	0.5mm

Breakthrough Time: >480 minutes

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 ₂ 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
Contact with acid liberates carbon dioxide (CO₂).

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 (CO₂). Carbon monoxide (CO).

11. Toxicological Information**11.1 Information on toxicological effects****Acute Toxicity**

Route	Species	Time	Test	Value	Units
Oral	Rat	-	LD50	>4000	mg/kg
Inhalation	Rat	4 hrs	LC50	>4.74	mg/l

EPA-FIFRA 40 CFR 160.

EPA OTS 798.1150.

Skin Corrosion/Irritation:

Animal data Not irritating.
Erythema\eschar score No erythema (0).
Oedema score No oedema (0).
Test methods (s) OECD 404.
Based on available data the classification criteria are not met

Serious eye damage/irritation:

Eye Damage/Irritation Not irritating.
Test method(s): OECD 405.
Based on available data the classification criteria are not met.

Germ cell mutagenicity:

Genotoxicity In Vitro DNA damage and/or repair:Negative.
Based on available data the classification criteria are not met.

Carcinogenicity:

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

Reproductive Toxicity

Fertility Scientifically unjustified.

Developmental toxicity: NOAEL: Oral Rat >340 mg/kg/day
NOAEL: Oral Mouse >580 mg/kg/day

This substance has no evidence of toxicity to reproduction.

Based on available data the classification criteria are not met.

11. Toxicological Information**Specific target organ toxicity - repeated exposure:**

STOT - repeated exposure Data lacking

Aspiration hazard

Aspiration hazard 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****Etoxicity 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 InvertebratesEC50 48 hours 4100 mg/l *Daphnia magna*

REACH dossier information EPA OPP 72-2.

Chronic Toxicity - Aquatic InvertebratesNOEC 21 days > 576 mg/l *Daphnia magna***12.2 Persistence and degradability**

Persistence and degradability

The product contains only inorganic substances which are not biodegradable

Biodegradation

Not applicable.

12.3 Bioaccumulative potential

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Partition coefficient

Not applicable. Substance is inorganic.

12.4 Mobility in soil

Mobility

The product is soluble in water.

12.5 Results of PBT and vPvB assessment

PBT identification:

Not Classified as PBT/vPvB by current EU criteria.

12.6 Other adverse effects

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.**

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) (as amended). 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 (as amended).
Guidance Notes	Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

A chemical safety assessment has been carried out. An Exposure Scenario has not been prepared as a CSR was not required for registration.

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.