

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: Kleen Spa TA Plus

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

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
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144-55-8	205-633-8	01-2119457606-32-XXXX	CH2O3.Na
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Composition Comments	Purity > 99.0 % w/w
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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 d

In case of skin contact: Remove affected person from source of contamination. Remove
skin immediately with soap and water. Get medical attention if al

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids fo
contact lenses. Seek medical attention immediately

If swallowed: Rinse mouth with water and then drink plenty of water. Seek me
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

5. Fire fighting measures**5.1 Extinguishing media:**

Extinguishing media: This product is not flammable. Use fire-extinguishing media appropriate for the 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 evolved.

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.

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 formation of dust. Provide good ventilation. Good personal hygiene is necessary. Wash hands and clothing 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 area. Store away from incompatible materials (see Section 10). Store at temperatures not exceeding 25°C. Do not expose to temperatures above 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 practicable

Personal protective equipment

Respiratory protection No specific recommendations. Protection against nuisance dust if airborne concentration exceeds 10 mg/m³. If ventilation is inadequate, protection must be worn.

Wear a suitable dust mask. (FFP1/FFP2)

Disposable filtering half mask respirators should comply with European Standard EN405.

or

Wear a respirator fitted with the following cartridge: Particulate 1
Half mask and quarter mask respirators with replaceable filter cartridge
European Standard EN140.

Particulate filters should comply with European Standard EN143

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

Recommended material:

Thickness:

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, etc. promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated 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

Decomposition temperature (°C) 50°C

Flash point (°C) Not applicable

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

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
<p>Alkali metals</p> <p>Alkali earth metals</p> <p>Aluminum</p> <p>Zinc</p> <p>Iron</p> <p>Copper</p> <p>Hydrogen</p> <p>Carbon</p> <p>Sulfur</p> <p>Phosphorus</p> <p>Nitrogen</p> <p>Oxygen</p> <p>Halogens</p> <p>Noble gases</p>	<p>Alkali metals</p> <p>Alkali earth metals</p> <p>Aluminum</p> <p>Zinc</p> <p>Iron</p> <p>Copper</p> <p>Hydrogen</p> <p>Carbon</p> <p>Sulfur</p> <p>Phosphorus</p> <p>Nitrogen</p> <p>Oxygen</p> <p>Halogens</p> <p>Noble gases</p>

10.2 Chemical stability

Chemical stability	Stable under normal use and storage conditions
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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, moist
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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

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.
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Germ cell mutagenicity:

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

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

Ecotoxicity effects Not regarded as dangerous for the environment

Acute Toxicity - Fish

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

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 4100 mg/l *Daphnia magna* REACH dossier information

Chronic Toxicity - Aquatic Invertebrates

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

12.2 Persistence and degradability

Persistence and degradability	The product contains only inorganic substances wh
Biodegradation	Not applicable.

12.3 Bioaccumulative potential

Bioaccumulative potential	The product does not contain any substances expe
Partition coefficient	Not applicable. Substance is inorganic.

12.4 Mobility in soil

Mobility	The product is soluble in water.
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12.5 Results of PBT and vPvB assessment

PBT identification:	Not Classified as PBT/vPvB by current EU criteria.
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12.6 Other adverse effects

Other adverse effects	None known
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13. Disposal Considerations

13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Contact special waste disposal company for further information.

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 with
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	

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 11 December 2008 on classification, labelling and packaging of substances and mixtures (CLP) (as amended).
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Guidance Notes	Workplace Exposure Limits EH40.
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15.2 Chemical Safety Assessment

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

16. Other information

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

■ Indicates updated section.

(outside of office hours)

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doctor in case of complaints

contaminated clothing. Wash the
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handling which leads to dust
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1 EPA OPP 72-1.

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Not applicable

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