Revision: 17 December 2020

SAFETY DATA SHEET

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

1.1 Product identifier

- **UFI No:** **4Y10-H0HP-100T-M649**
- Product Name: TA Plus
- Product Part Number: 023
- Chemical Name: Sodium bicarbonate
- Synonyms: Sodium hydrogen carbonate
- CAS No.: 144-55-8
- EC No.: 205-633-8
- REACH Registration Number: 01-2119457606-32-XXXX

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

- Use of the substance/mixture: Pool / spa treatment
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Plastica Ltd
- Address of Supplier: Perimeter House
Napier Road
St Leonards-on-Sea
East Sussex
United Kingdom
TN38 9NY
- Telephone: +44 (0) 1424 857857
- Email: info@plasticapools.net

1.4 Emergency telephone number

- Emergency Telephone: 0800 043 0891 (technical)
0800 043 0892 (emergency)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Not Classified
- Additional information: For full text of Hazard and EU Hazard statements: see section 16

2.2 Label elements

- Hazard pictograms: None
- Signal Word: None
- Hazard statements
None
- Precautionary statements
None
- Supplemental Hazard information (EU)
None

2.3 Other hazards

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	SCL/ M-Factor/ ATE	REACH Registration Number	WEL/ OEL
Sodium bicarbonate	> 99.0 % w/w	144-55-8	205-633-8	Not classified	-	01-2119457606-32-XXXX	No

3.2 Mixtures

- Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

- Contact with skin
  Wash affected area with plenty of soap and water
  Take off contaminated clothing and wash it before reuse.
  If skin irritation or rash occurs: Get medical advice/attention.
- Contact with eyes
  If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
  Irrigate eyes thoroughly whilst lifting eyelids
  Remove contact lenses, if present and easy to do. Continue rinsing.
  If eye irritation persists: Get medical advice/attention.
- Ingestion
  Rinse mouth with water (do not swallow)
  Give plenty of water to drink
  Do NOT induce vomiting.
  When in doubt or symptoms persist, seek medical attention
- Inhalation
  If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
  Rinse mouth and nose with water.
  IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- Contact with eyes
  May cause redness and irritation
- Contact with skin
  May cause redness and irritation
- Ingestion
  May disturb the mucous membranes
  May cause stomach pain
- Inhalation
  In cases of severe exposure, irritation of the respiratory tract may develop

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media: Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- Unsuitable extinguishing media: No information available

5.2 Special hazards arising from the substance or mixture

- Gives off irritating or toxic fumes (or gases) in a fire.
- Decomposition products may include carbon oxides

5.3 Advice for firefighters

- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Rescuers should take suitable precautions to avoid becoming casualties themselves
- Only trained and authorised personnel should carry out emergency response
- Personal precautions for non-emergency personnel: Avoid formation of dust; Do not breathe dust; Wear protective clothing as per section 8; Wash thoroughly after handling.
- Personal precautions for emergency responders: Wear self-contained breathing apparatus (SCBA); Wear suitable protective clothing, eye/face protection and gloves

6.2 Environmental precautions

- Avoid release to the environment.
- 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

- Stop leak if safe to do so.
- Prevent formation of dust

- Small spills
  Wipe up spillage with damp absorbent cloth or towel

- Large spills
  Sweep or shovel-up spillage and remove to a safe place
  Place in sealable container
  Seal containers and label them
  Remove contaminated material to safe location for subsequent disposal
  Seek expert advice for removal and disposal of all contaminated materials and wastes
  Flush spill area with copious amounts of water

6.4 Reference to other sections

- See section(s): 7, 8 & 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Avoid contact with skin and eyes
- Prevent formation of dust

SECTION 7: Handling and storage (....)

- Do not breathe dust
- Wear protective clothing as per section 8
- Do not eat, drink or smoke when using this product.
- Contaminated clothing should be laundered before reuse
- Use good personal hygiene practices
- Wash thoroughly after handling.
- Ensure eyewash stations and safety showers are nearby

7.2 Conditions for safe storage, including any incompatibilities

- Store in a cool, dry well-ventilated place. Keep container tightly closed.
- Store at ≤ 25 °C
- Protect from moisture
- Keep away from food, drink and animal feedingstuffs
- Incompatible with strong acids
- Incompatible with strong oxidizing substances

7.3 Specific end use(s)

- Pool / spa treatment

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
  Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with occupational exposure limit values). European Standard EN 14042 (Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents). European Standard EN 482 (Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m³ (8hr TWA) total inhalable dust; 4 mg/m³ (8hr TWA) total respirable dust

8.2 Exposure controls

- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential

- Engineering controls
  Ensure adequate ventilation
  Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
  Use local exhaust ventilation and/or enclosures.

- Respiratory protection
  No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask
  Use type FFP1 or FFP2 (EN 143) dust masks

- Eye/face protection
  Wear goggles giving complete eye protection approved to standard EN 166.

- Skin protection
  Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
  The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.

SECTION 8: Exposure controls/personal protection (....)

Suitable glove material: Nitrile rubber.
Thickness: 0.35 mm
Rubber (natural, latex). Butyl rubber. Polyvinyl chloride (PVC).
Thickness: 0.5 mm
Breakthrough time: > 480 minutes.

- Hygiene measures
  Do not eat, drink or smoke when using this product.
  Use good personal hygiene practices
  Wash thoroughly after handling.
  Ensure eyewash stations and safety showers are close to hand.

- Environmental exposure controls
  Do not empty into drains
  Do not allow to penetrate the ground/soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: White dusty powder
- Odour: None
- Odour threshold: No information available
- pH: 8 @ 5 % diluted solution
- Melting point/freezing point: > 500 °C
  Test method(s): OECD 102
- Initial boiling point and boiling range: Not determined
- Flashpoint: Not applicable
- Evaporation Rate: No information available
- Flammability (solid,gas): The product is non-combustible.
  Test method(s): EU A.10
- Upper/lower flammability or explosive limits: No information available
- Vapour Pressure: Endpoint waived according to REACH Annex VII, IX or XI
- Vapour Density: No information available
- Relative Density: 2.2 @ 20 °C
  Test method(s): EU A.3
- Solubility(ies): 93.4 g/l water @ 20 °C
  Soluble in water.
  Test method(s): EU A.6
- Partition Coefficient (n-Octanol/Water): Not applicable
- Autoignition Temperature No information available
- Decomposition temperature: > 50 °C
- Viscosity: Not applicable
- Explosive Properties: Non-explosive
- Oxidising Properties: Not oxidising

9.2 Other information

- Molecular weight: 85

SECTION 10: Stability and reactivity

10.1 Reactivity

SECTION 10: Stability and reactivity (....)

- Reacts slowly with acid
- May decompose on exposure to water

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- Reacts with acids with the evolution of heat and carbon dioxide

10.4 Conditions to avoid

- Keep away from heat and sources of ignition
- Keep away from moist air or water

10.5 Incompatible materials

- Incompatible with strong acids
- Incompatible with strong acids

10.6 Hazardous decomposition products

- Decomposition products may include carbon dioxide
- Decomposition products may include sodium oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute Toxicity
  Based on available data, the classification criteria are not met
  LD_{50} (oral, rat): > 4 000 mg/kg
  LC_{50} (inhalation, rat): (4.5 h) > 4.74 mg/L
- Skin corrosion/irritation
  No adverse effect observed (not irritating)
  Erythema/eschar score: No erythema (0).
  Oedema score: No oedema (0).
  Test method(s): OECD 404.
- Serious eye damage/irritation
  No adverse effect observed (not irritating)
  Test method(s): OECD 405.
- Respiratory or skin sensitisation
  Based on available data, the classification criteria are not met
- Germ cell mutagenicity
  No evidence of mutagenic effects
  DNA damage and/or repair: Negative.
- Carcinogenicity
  No evidence of carcinogenic effects
- Reproductive toxicity
  No evidence of reproductive effects
  Developmental toxicity: - NOAEL: > 340 mg/kg/day, Oral, Rat
  Developmental toxicity: - NOAEL: > 580 mg/kg/day, Oral, Mouse
- Specific target organ toxicity (STOT) - single exposure
  Based on available data, the classification criteria are not met
- Specific target organ toxicity (STOT) - repeated exposure
  Based on available data, the classification criteria are not met
- Aspiration hazard

SECTION 11: Toxicological information (....)

Based on available data, the classification criteria are not met

- Contact with eyes
  May cause redness and irritation
- Contact with skin
  May cause redness and irritation
- Ingestion
  May disturb the mucous membranes
  May cause stomach pain
- Inhalation
  In cases of severe exposure, irritation of the respiratory tract may develop

SECTION 12: Ecological information

12.1 Toxicity

- Based on available data, the classification criteria are not met
- LC_{50} (fish): 7.1 g/L (4 days)
  Test method(s):
  EPA OPP 72-1.
- EC_{50} (aquatic invertebrates): 4.1 g/L(48 h)
  Test method(s):
  EPA OPP 72-2.
- Chronic toxicity (aquatic invertebrates): NOEC (21 days) 576 mg/L, Daphnia magna

12.2 Persistence and degradability

- Not applicable; inorganic

12.3 Bioaccumulative potential

- Bioaccumulation is not expected

12.4 Mobility in soil

- Soluble in water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

12.6 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Do not reuse empty containers without commercial cleaning or reconditioning

13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
- Hazardous Property Code(s): None assigned

SECTION 14: Transport information

Not classified as hazardous for transport

SECTION 14: Transport information (....)

14.1 UN number or ID number

- UN No.: Not applicable

14.2 UN proper shipping name

- Proper Shipping Name: Not applicable

14.3 Transport hazard class(es)

- Hazard Class: Not applicable

14.4 Packing group

- Packing Group: Not applicable

14.5 Environmental hazards

- Not Classified

14.6 Special precautions for user

- Not Classified

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not Classified

14.8 Road/Rail (ADR/RID)

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

14.9 Sea (IMDG)

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

14.10 Air (ICAO/IATA)

- ICAO UN No.: Not applicable
- Proper Shipping Name: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe

15.2 Chemical safety assessment

- A REACH chemical safety assessment has been carried out

SECTION 16: Other information

This information relates only to the specific material designated and may not be valid for such material used in

SECTION 16: Other information (....)

combination with any other materials or in any process. Such information is, to the best of PLASTICA'S limited knowledge and belief, accurate, and reliable as of the date of authorisation of this safety data sheet. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied as to the suitability and completeness of such information for the product as used.

Sources of data: Information from published literature and supplier safety data sheets

Revision No. 2.0.0. Revised December 2020.
Changes made: Updated to conform to latest version of REACH

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- None assigned

Acronyms

- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC_{50}: Effective Concentration, 50%
- GHS: Globally Harmonised System
- LC_{50}: Lethal Concentration, 50%
- LD_{50}: Lethal Dose, 50%
- NOAEC: No observed adverse effect concentration
- NOAEL: No observed adverse effect level
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- SCL: Specific Concentration Limit
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

--- end of safety datasheet ---