

Material data sheet of 25/7/2019, version 1

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

1.1. Product identifier

Identification of the substance:

Trade name:	TA PLUS
Chemical name:	Sodium hydrogencarbonate
CAS number:	144-55-8
EC number:	205-633-8
REACH number:	01-2119457606-32-XXXX
Formula:	NaHCO <sub>3</sub>

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

Recommended use: TECHNICAL GRADE OF SODIUM BICARBONATE IS USED FOR FLUE GAS TREATMENT, TECHNICAL GRADE OF SODIUM BICARBONATE IS USED FOR FLUE GAS TREATMENT, PULP AND PAPER PRODUCTION , PROFESSIONAL USES, CONSUMERS USES AND OTHER INDUSTRIAL, USES.

Uses advised against: All that is not included in the recommended uses

**Supplier(Importer):** Wilton Bradley Europe B.V.

**Address:** Barbara Strozilaan 201, 1083HN, Amsterdam, Netherlands

**Contact person** (E-mail): sales@wiltonbradley.co.uk

**Telephone:** +44 (0)1626 835400

**Fax:** +44 (0)1626 836656

Emergency telephone number

+44 (0)333 301 0644

Available outside office hours? YES  NO

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**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

Physical and chemical hazards: the product is not classified for this hazard category.

Health hazards: the product is not classified for this hazard category.

Environmental hazards: the product is not classified for this hazard category.

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

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#### 2.2. Label elements

Hazard pictograms: None

Hazard statements: None

Precautionary statements: None

Special Provisions: None

Special provisions according to Annex XVII of REACH and subsequent amendments: None

#### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards: No other hazards

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Qty	Name	Ident. Number	Classification
>= 90%	Sodium hydrogencarbonate	CAS: 144-55-8 EC: 205-633-8 REACH No.: 01-21194576 06-32-XXXX	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

The product is not dangerous, however, the following risk management measures are recommended:

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water.

In case of Ingestion:

Do not induce vomiting. OBTAIN A MEDICAL IF NECESSARY.

In case of Inhalation:

Remove casualty to fresh air.

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

None

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

Treat symptomatically. Consult a doctor.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:  
Carbon dioxide (CO<sub>2</sub>). Water.  
CO<sub>2</sub> or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:  
None in particular.

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

CO<sub>x</sub>

#### 5.3. Advice for firefighters

Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant (EN469), fireproof gloves (EN 659) and firefighter boots (HO A29 or A30). Use suitable breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

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### SECTION 6: Accidental release measures

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

Adopt standard procedures for emergency management in order to stop the loss and allow adequate reclamation of the environment in which the accident occurred.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Keep away from food, drink and feed.

Incompatible materials:

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Acids.

Instructions as regards storage premises:  
Adequately ventilated premises.

#### 7.3. Specific end use(s)

There are no specific end uses other than those identified in Section 1.2 of this information document.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

The product does not contain any substances that are subject to Community workplace exposure limits (OEL) requiring declaration in this Section.

It is recommended to consider in the risk assessment process the occupational exposure limit values foreseen by ACGIH for inert powders not otherwise classified (PNOC respirable fraction: 3 mg / mc; PNOC inhalable fraction: 10 mg / mc). If these limits are exceeded, we recommend using a type P filter whose class (1, 2 or 3) must be chosen according to the outcome of the risk assessment.

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

### 8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

Particulate filter device (DIN EN 143).

Appropriate engineering controls:

Operate in a well ventilated place.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance:	Crystalline powder	--	--
Colour:	White	--	--
Odour:	Odorless	--	--
Odour threshold:	N.A.	--	--
pH:	8.5	--	Concentration: 52 g/l

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Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	N.A.	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	2.22	--	Bulk density: 0.9 – 1.25 g/cm <sup>3</sup>
Solubility in water:	96 g/l	--	20°C (in water); slightly soluble in Alcohol
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	Not applicable (product isn't combustible)	--	--
Decomposition temperature:	> 60°C	--	--
Viscosity:	N.A.	--	--
Explosive properties:	Not applicable (absence of chemical groups associated with explosive properties, pursuant to the provisions of Annex I, Part 2, chapter 2.1.4.3 of Reg. (EC) 1272/2008 (CLP).	--	--
Oxidizing properties:	Not applicable (absence of the requirements related to the presence of atoms and/or chemical bonds associated with oxidising properties in the molecules of the components, pursuant to the provisions of Annex I, Part 2, 2.13.4 of Reg. (EC) 1272/2008 (CLP).	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

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#### SECTION 10: Stability and reactivity

- 10.1. Reactivity
    - Incompatible with acids.
    - Decomposes slowly on exposure to water.
  - 10.2. Chemical stability
    - Stable under normal conditions
  - 10.3. Possibility of hazardous reactions
    - None
  - 10.4. Conditions to avoid
    - Exposure to moisture.
    - To avoid thermal decomposition, do not overheat.
  - 10.5. Incompatible materials
    - Acids.
  - 10.6. Hazardous decomposition products
    - COx.
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#### SECTION 11: Toxicological information

- 11.1. Information on toxicological effects

Toxicological information of the substance:

**TA PLUS - CAS: 144-55-8**

- a) acute toxicity
  - Not classified
- b) skin corrosion/irritation
  - Not classified
- c) serious eye damage/irritation
  - Not classified
- d) respiratory or skin sensitisation
  - Not classified
- e) germ cell mutagenicity
  - Not classified
- f) carcinogenicity
  - Not classified
- g) reproductive toxicity
  - Not classified
- h) STOT-single exposure
  - Not classified

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i) STOT-repeated exposure  
Not classified

j) aspiration hazard  
Not classified

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#### SECTION 12: Ecological information

##### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

##### **TA PLUS - CAS: 144-55-8**

Not classified for environmental hazards

Based on the evaluation of the classification of the components and the classification provisions of Annex I, Part 4 of the reg. (CE) 1272/2008 and s.m.i., the mixture is not classified as dangerous for the environment.

12.2. Persistence and degradability  
Not applicable.

12.3. Bioaccumulative potential  
Not applicable.

12.4. Mobility in soil  
Not applicable.

12.5. Results of PBT and vPvB assessment  
vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects  
None

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#### SECTION 13: Disposal considerations

13.1. Waste treatment methods  
Recover if possible. In so doing, comply with the local and national regulations currently in force.

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#### SECTION 14: Transport information

14.1. UN number  
N.A.

14.2. UN proper shipping name

ADR-Environmental Pollutant: No

IATA-Shipping Name: No

IMDG-Marine pollutant: No

14.3. Transport hazard class(es)  
N.A.

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14.4. Packing group  
N.A.

14.5. Environmental hazards  
Marine pollutant: No

14.6. Special precautions for user  
N.A.

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

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#### SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: No restriction.

Restrictions related to the substances contained: No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1  
None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the substance.

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#### SECTION 16: Other information

Classification and procedure used to derive it in accordance with Regulation (EC) 1272/2008 [CLP] in relation to mixtures:



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**Chemical-physical hazards:** the dangerousness has been derived from the classification criteria of CLP Regulation Annex I Part 2 as amended and added.

**Health hazards** have been assessed with the calculation method set out by Reg. (EC) 1272/2008 (CLP) as amended and added for the classification of mixtures when data are available on all components of the mixture or some of them:

Acute Tox: application of criteria in Table 3.1.1. Annex I Part 3 of CLP Regulation as amended and added.

Skin Corr. 1A/1B/1C H314: application of additivity formula criteria in Table 3.2.3 Annex I Part 3 of CLP Regulation

Skin Irrit 2 H315: application of additivity formula criteria in Table 3.2.3 Annex I Part 3 of CLP Regulation

Eye Dam 1 H318: application of additivity formula criteria in Table 3.3.3 Annex I Part 3 of CLP Regulation

Eye Irrit. 2 H319: application of the additivity formula criteria in Table 3.3.3 Annex I Part 3 of CLP Regulation

Eye Irrit. 2 H319: table 3.3.3 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.

Skin Sens 1A/1B/1 H317 Table 3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.

Resp Sens 1A/1B/1 H334 Table 3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.

Muta. 1A/1B, 2 H340 - H341: table 3.5.2 Annex I Part 3 of CLP Regulation as amended and added.

Carc 1A/1B, 2 H350 - H351: table 3.6.2 Annex I Part 3 of CLP Regulation as amended and added.

Repr 1A/1B, 2 H360 - H361: table 3.7.2 Annex I Part 3 of CLP Regulation as amended and added.

STOT SE 1, 2 H370 - 371: application of the calculation methods - table 3.8.3 of Ann. I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.

STOT SE 3 H336: ch. 3.8.3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.

STOT RE 1, 2 H372 - H373: table 3.9.4 Annex I Part 3 of CLP Regulation as amended and added.

Asp Tox 1 H304: application of criteria 3.10 Annex I Part 3 of CLP Regulation as amended and added

**Environmental hazards** have been assessed with the calculation method set out by Reg. (EC) 1272/2008 (CLP) as amended and added for the classification of mixtures when data are available on all components of the mixture or some of them:

- toxicity for the aquatic environment acute effects: table 4.1.1 of Annex I, Part 4 of Reg. (EC) 1272/2008 (CLP) as amended and added;

- toxicity for the aquatic environment chronic effects: table 4.1.2 of Annex I, Part 4 of Reg. (EC) 1272/2008 (CLP) as amended and added.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.

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GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.

**FIRST EMISSION OF THE DOCUMENT.**