

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

CHAMPION pH INCREASER

Version 4.1

Print Date 2020/04/21

Revision date / valid from 2020/04/21

MSDS code: MAAA745

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

1.1. Product identifier

Trade name : CHAMPION pH INCREASER
 Substance name : sodium carbonate
 Index-No. : 011-005-00-2
 CAS-No. : 497-19-8
 EC-No. : 207-838-8
 EU REACH-Reg. No. : 01-2119485498-19-xxxx

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

Use of the Substance/Mixture : Identified use: See table in front of appendix for a complete overview of identified uses.
 Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK Limited
 Alpha House, Lawnswood Business Park
 GB LS16 6QY Leeds
 Telephone : +44 (0) 113 3879 200
 Telefax : +44 (0) 113 3879 280
 E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
 +44 (0) 1865 407333 (N.C.E.C. Culham)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Serious eye damage/eye irritation	Category 2	---	H319

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For the full text of the H-Statements mentioned in this Section, see Section 16.


Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9/10 for physicochemical information.

Potential environmental effects : See section 12 for environmental information.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008**

Hazard symbols : 

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements

Prevention : P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response : P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Hazardous components which must be listed on the label:

- sodium carbonate

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients

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3.1. Substances

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
sodium carbonate			
Index-No. : 011-005-00-2	<= 100	Eye Irrit.2	H319
CAS-No. : 497-19-8			
EC-No. : 207-838-8			
EU REACH- : 01-2119485498-19-xxxx			
Reg. No.			

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: Take off all contaminated clothing immediately.
If inhaled	: Remove to fresh air.
In case of skin contact	: Wash off immediately with plenty of water.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.
	: If conscious, drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: No information available.
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SECTION 5: Firefighting measures

CHAMPION pH INCREASER**5.1. Extinguishing media**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.
- Unsuitable extinguishing media : No information available.

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Incomplete combustion may form toxic pyrolysis products.

5.3. Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
- Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Use personal protective equipment. Avoid dust formation. Avoid contact with skin and eyes. For personal protection see section 8.

6.2. Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

- Methods and materials for containment and cleaning up : Use mechanical handling equipment. Keep in suitable, closed containers for disposal.
- Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

- See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

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Advice on safe handling : Keep container tightly closed. Use personal protective equipment. Avoid dust formation. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before eating, drinking, or smoking. Provide adequate ventilation. Avoid contact with the skin and the eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in an area equipped with alkali resistant flooring. Store in original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Avoid moisture. Product is hygroscopic.

Advice on common storage : Do not store near acids. Keep away from food, drink and animal feedingstuffs.

German storage class : 13 Non Combustible Solids

7.3. Specific end use(s)

Specific use(s) : Identified use: See table in front of appendix for a complete overview of identified uses.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other Occupational Exposure Limit Values

(Additional) Information : Contains no substances with occupational exposure limit values.
Contains no substances with occupational exposure limit values.

Component:	sodium carbonate	CAS-No. 497-19-8
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL
Workers, long-term, Inhalation : 10 mg/m³

DNEL
Consumers, Acute - local effects, Inhalation : 10 mg/m³

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Predicted No Effect Concentration (PNEC)

Not applicable :

8.2. Exposure controls

Appropriate engineering controls

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection

Advice : Required if dust is released
Respirator with a dust filter
Recommended Filter type:
Particle filter:P2
Particle filter:P3

Hand protection

Advice : The glove material has to be impermeable and resistant to the product / the substance / the preparation.
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective gloves should be replaced at first signs of wear.
The following materials are suitable:

Material : butyl-rubber
Break through time : ≥ 8 h
Glove thickness : 0.5 mm

Material : polychloroprene
Break through time : ≥ 8 h
Glove thickness : 0.5 mm

Material : Nitrile rubber
Break through time : ≥ 8 h
Glove thickness : 0.35 mm

Material : Fluorinated rubber
Break through time : ≥ 8 h
Glove thickness : 0.4 mm

Material : Polyvinylchloride
Break through time : ≥ 8 h
Glove thickness : 0.5 mm

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Material : Natural Rubber
Break through time : ≥ 8 h
Glove thickness : 0.5 mm

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Wear suitable protective clothing.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form : crystalline
or
powder

Colour : white

Odour : odourless

Odour Threshold : Not applicable

pH : 11.6 (100 g/l ; 20 °C)

Melting point/range : 851 °C

Boiling point/boiling range : 1,600 °C

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Not applicable

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

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Relative density	: 2.53 (20 °C)
Density	: 2.53 g/cm ³ (20 °C)
Water solubility	: 215 g/l (20 °C)
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Thermal decomposition	: > 400 °C
Viscosity, dynamic	: Not applicable
Explosive properties	: EU legislation: Not explosive
Explosivity	: Product is not explosive.
Oxidizing properties	: none

9.2. Other information

Molecular weight	: 106 g/mol
Bulk density	: 0.5 - 0.65 kg/dm ³ Light soda ash 1.1 - 1.2 kg/dm ³ Dense soda ash

SECTION 10: Stability and reactivity

10.1. Reactivity

Advice : No decomposition if stored and applied as directed.

10.2. Chemical stability

Advice : No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Hazardous reactions : Product is hygroscopic. Reacts exothermically with water.

10.4. Conditions to avoid

Conditions to avoid : Exposure to moisture
Thermal decomposition : > 400 °C

10.5. Incompatible materials

Materials to avoid : Strong acids and strong bases, Zinc, Acids, Aluminium, Water

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon dioxide (CO₂), Sodium oxide

CHAMPION pH INCREASER**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Component:	sodium carbonate	CAS-No. 497-19-8
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Acute toxicity**Oral**

LD50 : 2800 mg/kg body weight(Rat, male and female)

Inhalation

LC50 : 2.3 mg/l (Rat; 2 h) (OECD Test Guideline 403)Inhalation may cause pain and cough.

Dermal

LD50 : > 2000 mg/kg body weight(Rabbit) (US-EPA method)

Irritation**Skin**

Result : No skin irritation (Rabbit) (OECD Test Guideline 404)

Eyes

Result : Severe eye irritation (Rabbit) (US-EPA method)

Sensitisation

Result : not sensitizing

CMR effects**CMR Properties**

Carcinogenicity : Study scientifically not justified.
 Mutagenicity : In vitro tests did not show mutagenic effects
 Teratogenicity : Animal testing did not show any effects on foetal development.
 Reproductive toxicity : Study scientifically not justified.

Specific Target Organ Toxicity**Single exposure**

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Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties

Repeated dose toxicity

; Sodium carbonate dissociates into ions that are present physiologically in relatively high levels in vertebrates. Therefore, repeated dose toxicity studies are considered (scientifically) unnecessary, in accordance with column 2 of REACH Annex VIII and IX.

Aspiration hazard

Not applicable,

SECTION 12: Ecological information

12.1. Toxicity

Component:	sodium carbonate	CAS-No. 497-19-8
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Acute toxicity

Fish

EC50 : 300 mg/l (Lepomis macrochirus; 96 h)

Toxicity to daphnia and other aquatic invertebrates

: 200 - 227 mg/l (Freshwater invertebrates; 48 h)

algae

: Study scientifically unjustified.

Bacteria

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: Study scientifically unjustified.

Short-term (acute) aquatic hazard

Result : This product has no known ecotoxicological effects.
Study scientifically unjustified.

Chronic toxicity

Long-term (chronic) aquatic hazard

Result : Study scientifically unjustified.

12.2. Persistence and degradability

Component:	sodium carbonate	CAS-No. 497-19-8
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Persistence and degradability

Persistence

Result : decomposition by hydrolysis.

Biodegradability

Result : The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Component:	sodium carbonate	CAS-No. 497-19-8
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Bioaccumulation

Result : Bioaccumulation is not expected.

12.4. Mobility in soil

Component:	sodium carbonate	CAS-No. 497-19-8
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Mobility

: study scientifically unjustified

12.5. Results of PBT and vPvB assessment

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Component:	sodium carbonate	CAS-No. 497-19-8
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Results of PBT and vPvB assessment

Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

12.6. Other adverse effects

Component:	sodium carbonate	CAS-No. 497-19-8
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Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
- Contaminated packaging : Dispose of contaminated packaging in the same way as the product. In accordance with local and national regulations.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

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.

CHAMPION pH INCREASER**14.5. Environmental hazards**

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Component:	sodium carbonate	CAS-No. 497-19-8
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**Notification status
sodium carbonate:**

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	207-838-8
ENCS (JP)	YES	(1)-164
IECSC	YES	
ISHL (JP)	YES	(1)-164
KECI (KR)	YES	KE-31380
NZIOC	YES	HSR003265
PICCS (PH)	YES	
TSCA	YES	

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information**Full text of H-Statements referred to under sections 2 and 3.**

H319 Causes serious eye irritation.

Abbreviations and Acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service

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CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with

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regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.