

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

CHAMPION CHLORINE STABILISER

Version 3.0

Print Date 2022/06/10

Revision date / valid from 2022/06/10

MSDS code: MVVV246

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

1.1. Product identifier

Trade name : CHAMPION CHLORINE STABILISER
Substance name : Cyanuric acid
CAS-No. : 108-80-5
EC-No. : 203-618-0
EU REACH-Reg. No. : 01-2119480421-45-xxxx

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

Use of the Substance/Mixture : Laboratory chemicals, Manufacture of substances, Water treatments
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 S.I. 2019/720 (GB CLP)

The product is not classified as dangerous according to Regulation S.I. 2019/720 (GB CLP).
The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Most important adverse effects

Human Health : See section 11 for toxicological information.
Physical and chemical : See section 9/10 for physicochemical information.

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hazards
Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation S.I. 2019/720 (GB CLP)

The product is not labeled as dangerous according to Regulation S.I. 2019/720 (GB CLP).
The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Remarks : No dangerous ingredients according to Regulation S.I. 2019/720 (GB CLP).
No dangerous ingredients according to Regulation (EC) No. 1907/2006

Non-hazardous component

Chemical name	Identification Number	Amount [%]
Cyanuric acid	CAS-No. : 108-80-5	<= 100
	EC-No. 203-618-0	
	REACH-Reg. No. 01-2119480421-45-xxxx	

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : No special precautions required.

If inhaled : Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water. If skin irritation persists, call a physician.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

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Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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	: Health injuries are not known or expected under normal use. 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	: Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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.
Hazardous combustion products	: Carbon monoxide, Carbon dioxide (CO ₂), Nitrogen oxides (NO _x)

5.3. Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Choose protective equipment according to size of fire.
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. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe gas/fumes/vapour/spray.
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6.2. Environmental precautions

Environmental	: Do not flush into surface water or sanitary sewer system.
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Acute - systemic effects, Skin contact	:	3.08 mg/kg bw/day
DNEL		
Workers, Acute - systemic effects, Inhalation	:	10.86 mg/m ³
DNEL		
Workers, Long-term - systemic effects, Skin contact	:	1.55 mg/kg bw/day
DNEL		
Workers, Long-term - systemic effects, Inhalation	:	10.86 mg/m ³
DNEL		
Consumers, Acute - systemic effects, Long-term - systemic effects, Skin contact, Ingestion	:	1.54 mg/kg bw/day
DNEL		
Consumers, Acute - systemic effects, Long-term - systemic effects, Inhalation	:	2.7 mg/m ³

Predicted No Effect Concentration (PNEC)

Fresh water	:	12.1 mg/l
Marine water	:	1.52 mg/l
Sediment	:	7.56 mg/kg dry weight (d.w.)
Soil	:	0.756 mg/kg dry weight (d.w.)
Sewage treatment plant (STP)	:	204.1 mg/l

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Required, if exposure limit is exceeded (e.g. OEL).
Respiratory protection complying with EN 141.

Hand protection

Advice : Protective gloves complying with EN 374.

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Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Protective gloves should be replaced at first signs of wear.

Material : Nitrile rubber
Break through time : 480 min
Permeation rate : 0.11 min

Eye protection

Advice : Safety goggles
Equipment should conform to EN 166

Skin and body protection

Advice : Protective work clothing

Environmental exposure controls

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

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

Form : powder
Physical state : solid
Colour : white
Odour : No data available
Odour Threshold : No data available
Melting point/range : > 360 °C
Boiling point : No data available
Flammability : No data available
Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : No data available
Flash point : No data available
Auto-ignition temperature : No data available

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Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: -1.31 (25 °C)
Dispersion Stability	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	No data available
Bulk density	:	No data available
Relative vapour density	:	No data available
Particle characteristics		No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

Advice : No information available.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

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Hazardous reactions : No information available.

10.4. Conditions to avoid

Conditions to avoid : No information available.

10.5. Incompatible materials

Materials to avoid : Strong oxidising agents

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon oxides, Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Component:	Cyanuric acid	CAS-No. 108-80-5
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Acute toxicity

Oral

LD50 : > 5000 mg/kg (Rat, male and female) (OECD Test Guideline 401)

Inhalation

LC50 : > 5.25 mg/l (Rat, male and female; 4 h) (OECD Test Guideline 403)

Dermal

LD50 : > 5000 mg/kg (Rat, male and female) (OECD Test Guideline 402)

Irritation

Skin

Result : No skin irritation (Rabbit)

Eyes

Result : No eye irritation (Rabbit)

Sensitisation

Result : Slight sensitisation (Local lymph node test; Rat) (OECD Test Guideline 429)not sensitizing

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CMR effects

Carcinogenicity

NOEL : 154 mg/kg bw/day
(negative, Rat, male)

CMR Properties

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

Genotoxicity in vitro

Result : negative (In vitro gene mutation study in bacteria) (OECD Test Guideline 471)

Genotoxicity in vivo

Result : negative (Mammalian Bone Marrow Chromosomal Aberration Test) (OECD Test Guideline 475)

Teratogenicity

NOAEL Develop. : > 500 mg/kg bw/day
(Prenatal Developmental Toxicity Study; Rabbit)(OECD Test Guideline 414)

Reproductive toxicity

NOAEL Parent : 470 mg/kg bw/day
 NOAEL F1 : 500 mg/kg bw/day
 (Two-generation reproductive toxicity; Rat, male)(OECD Test Guideline 416)
 NOAEL Parent : 950 mg/kg bw/day
 NOAEL F1 : 910 mg/kg bw/day
 (Two-generation reproductive toxicity; Rat, female)(OECD Test Guideline 416)

Specific Target Organ Toxicity

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Single exposure

Remarks : Based on available data, the classification criteria are not met.

Repeated exposure

Ingestion : Based on available data, the classification criteria are not met.

Other toxic properties

Repeated dose toxicity

NOAEL : 154 mg/kg bw/day

(Rat, male)(Oral)

NOAEL : 266 mg/kg bw/day

(Rat, female)(Oral)

Aspiration hazard

No aspiration toxicity classification,

11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

No data available

SECTION 12: Ecological information

12.1. Toxicity

Component:	Cyanuric acid	CAS-No. 108-80-5
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Acute toxicity

Fish

LC50 : > 1,000 mg/l (Lepomis macrochirus; 96 h) (static test; OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

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EC50 : > 1,000 mg/l (Daphnia magna (Water flea); 48 h) (static test; OECD Test Guideline 202)

algae

EC50 : 3780 mg/l (Navicula pelliculosa; 96 h) (End point: Growth rate; OECD Test Guideline 201)

EC50 : 76 mg/l (Skeletonema costatum (marine diatom); 96 h) (End point: Growth rate; ISO 10253)

Chronic toxicity

Fish

NOEC : 756 mg/l (Oncorhynchus mykiss (rainbow trout); 21 d) (End point: Growth rate; OECD Test Guideline 215)

Aquatic invertebrates

NOEC : 121 mg/l (Daphnia magna (Water flea); 21 d) (End point: Reproduction; OECD Test Guideline 211)

12.2. Persistence and degradability

Component:	Cyanuric acid	CAS-No. 108-80-5
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Persistence and degradability

Biodegradability

Result : 100 % (activated sludge; Exposure Time: 8 h) Readily biodegradable.

Result : 4 % (Marine water; Exposure Time: 60 d)

12.3. Bioaccumulative potential

Component:	Cyanuric acid	CAS-No. 108-80-5
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Bioaccumulation

Result : log Kow -1.31 (25 °C)
: Bioaccumulation is not expected.

12.4. Mobility in soil

Component:	Cyanuric acid	CAS-No. 108-80-5
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Mobility

: No data available

12.5. Results of PBT and vPvB assessment

Component:	Cyanuric acid	CAS-No. 108-80-5
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Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Data for the product

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 : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local 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.

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Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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

Component:	Cyanuric acid	CAS-No. 108-80-5
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EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : ; The substance/mixture does not fall under this legislation.

EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325) : EC Number: , 203-618-0; Listed

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EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : ; The substance/mixture does not fall under this legislation.

Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as amended : WGK 1: slightly hazardous to water: 4,394

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration

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LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
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
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VN INV L	Vietnam. National Chemical Inventory
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

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correct to our knowledge at the date of its revision. The information given only describes the products with 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.