

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

CHAMPION LARGE CHLORINE TRI-CHLOR TABLETS

Version 3.1

Print Date 2013/01/09

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MSDS code: MAAA752

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

1.1. Product identifier

Trade name : CHAMPION LARGE CHLORINE TRI-CHLOR TABLETS

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

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 & Ireland
Albion House, Rawdon Park
GB LS19 7XX Leeds Yeadon

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
Oxidizing solids	Category 2	---	H272
Acute toxicity (Oral)	Category 4	---	H302
Eye irritation	Category 2	---	H319
Specific target organ toxicity - single exposure	Category 3	Respiratory system	H335

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Acute aquatic toxicity	Category 1	---	H400
Chronic aquatic toxicity	Category 1	---	H410

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases
Oxidising (O)Oxidising (O)	R 8
Harmful (Xn)Harmful (Xn)	R22
Irritant (Xi)Irritant (Xi)	R36/37
Dangerous for the environment (N)Dangerous for the environment (N)	R50/53
	R31


For the full text of the R-phrases 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 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 : Danger
- Hazard statements : H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.
- Precautionary statements
- Prevention : P210 Keep away from heat.

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	P221	Take any precaution to avoid mixing with combustibles.
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	: P370 + P378	In case of fire: Use a lot of quantities of water for extinction
	P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
	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.
Storage	: P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
Disposal	: P501	Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

EUH031 Contact with acids liberates toxic gas.

Hazardous components which must be listed on the label:

- || • symclosene
- || • copper sulphate

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
symclosene				

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Index-No.	: 613-031-00-5	Ox. Sol.2	H272	Oxidising; O; R 8
CAS-No.	: 87-90-1	Acute Tox.4	H302	Harmful; Xn; R22
EC-No.	: 201-782-8	Eye Irrit.2	H319	R31
C&L-No.	: 02-2119752528-30-0000	STOT SE3	H335	Irritant; Xi; R36/37
	>= 87 - <= 95	Aquatic Acute1	H400	Dangerous for the environment; N;
		Aquatic Chronic1	H410	R50-R53

Aluminium sulphate, hydrate unspecified

CAS-No.	: 17927-65-0	2	H319	Irritant; Xi; R36/38
EC-No.	: 233-135-0	>= 2 - <= 4	Skin Irrit.2	H315

copper sulphate

Index-No.	: 029-004-00-0	Acute Tox.4	H302	Harmful; Xn; R22
CAS-No.	: 7758-98-7	Eye Irrit.2	H319	Irritant; Xi; R36/38
EC-No.	: 231-847-6	Skin Irrit.2	H315	Dangerous for the environment; N;
	>= 2 - <= 4	Aquatic Acute1	H400	R50-R53
		Aquatic Chronic1	H410	

boric acid

Index-No.	: 005-007-00-2	Repr.1B	H360FD	Repr.Cat.2; R60-
CAS-No.	: 10043-35-3			R61
EC-No.	: 233-139-2	>= 1 - <= 4		
Registration	: 01-2119486683-25-xxxx			
C&L-No.	: 02-2119752829-22-0000			

Remarks : This product contains a substance included on the candidate list according to article 59 (1, 10) of regulation EC No. 1907/2006 ('REACH') in a concentration >= 0.1% w/w.

For the full text of the R-phrases mentioned in this Section, see Section 16.
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

If inhaled	: Remove to fresh air. Keep at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Seek medical advice.
In case of skin contact	: Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Get medical attention if symptoms occur.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
If swallowed	: Rinse mouth with water. Drink plenty of water. Seek medical advice. Do NOT induce vomiting.

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

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Symptoms : See Section 11 for more detailed information on health effects and symptoms. Cough, Nausea, Redness, Pain, Weakness

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 : Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water, Carbon dioxide (CO₂)

Unsuitable extinguishing media : Halons

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : The substance itself does not burn, but in contact with combustible substances it increases the risk of fire and can fuel any existing fire substantially. In the event of fire and/or explosion do not breathe fumes.

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 information : 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 contact with skin and eyes.

6.2. Environmental precautions

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

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. Ensure adequate ventilation.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

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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

Advice on safe handling : Keep container tightly closed. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. 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 only in the original container. Suitable materials for containers: plastic materials; Unsuitable materials for containers: Wood; Rubber products; Metals; Do not store near combustible materials.

Advice on protection against fire and explosion : Contact with combustible material may cause fire. Keep away from sources of ignition - No smoking. Oxidising

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep away from heat. Keep in a well-ventilated place.

Advice on common storage : Keep away from combustible material. Keep away from food, drink and animal feedingstuffs.

Storage temperature : < 50 °C

7.3. Specific end use(s)

Specific use(s) : No information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Component:	CAS-No.
Aluminium sulphate, hydrate unspecified	17927-65-0

Other Occupational Exposure Limit Values

EH40 WEL, Time Weighted Average (TWA):
 2 mg/m³

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ELV (IE), Time Weighted Average (TWA):
2 mg/m³

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.
Ensure adequate ventilation.

Personal protective equipment

Respiratory protection

Advice : Required, if exposure limit is exceeded (e.g. OEL).
Required if dust is released
Particle filter:P2
Particle filter:P3

Hand protection

Advice : Protective gloves complying with EN 374.

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Wear personal protective equipment.

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	:	tablet
Colour	:	no data available
Odour	:	slight Chlorine
Odour Threshold	:	no data available
pH	:	2.7 - 3.3
Melting point/range	:	225 °C

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Boiling point	:	no data available
Flash point	:	no data available
Evaporation rate	:	no data available
Flammability (solid, gas)	:	The product is not flammable.
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	< 0.00002 hPa (20 °C)
Relative vapor density	:	no data available
Relative density	:	no data available
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	log Kow 0.94
Auto-ignition temperature	:	no data available
Thermal decomposition	:	225 °C
Viscosity, dynamic	:	no data available
Explosive properties	:	EU legislation: Not explosive
Oxidizing properties	:	May intensify fire; oxidiser.

9.2. Other information

No further information available.

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

Advice : No information available.

10.2. Chemical stability

Advice : No decomposition if stored and applied as directed.
No further information available.

10.3. Possibility of hazardous reactions

Hazardous reactions : Contact with combustible material may cause fire.

10.4. Conditions to avoid

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Conditions to avoid : > 50 °C

Thermal decomposition : 225 °C

10.5. Incompatible materials

Materials to avoid : Keep away from combustible material. Metals, Oxidizing agents, Reducing agents, Acids, alkalis, Nitrogen, Ammonium salts, Urea, Amines, Quaternary ammonium byproducts, Oil, fatty substances, Cationic surfactants

10.6. Hazardous decomposition products

Hazardous decomposition products : Chlorine, Nitrogen trichloride, chlorine oxides

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral

no data available

Inhalation

no data available

Dermal

no data available

Irritation

Skin

no data available

Eyes

no data available

Sensitisation

no data available

CMR effects

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CMR Properties

Carcinogenicity : no data available
 Mutagenicity : no data available
 Reproductive toxicity : no data available

Specific Target Organ Toxicity

Single exposure

no data available

Repeated exposure

no data available

Other toxic properties

Repeated dose toxicity

no data available

Aspiration hazard

no data available

Component: symclosene

CAS-No.
87-90-1

Acute toxicity

Oral

LD50 : 490 mg/kg (rat)

Inhalation

LC50 : > 50 mg/l (rat; 1 h)

Dermal

LD50 : > 2000 mg/kg (rabbit)

Irritation

Skin

Result : Mild skin irritation (rabbit)

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Eyes

Result : Severe eye irritation (rabbit)
Risk of serious damage to eyes.

Section 12: Ecological information

12.1. Toxicity

Component:	symclosene	CAS-No.
		87-90-1

Acute toxicity

Fish

LC50 : 0.3 mg/l (Lepomis macrochirus)

Toxicity to daphnia and other aquatic invertebrates

EC50 : 0.21 mg/l (Daphnia magna; 48 h)

12.2. Persistence and degradability

Component:	symclosene	CAS-No.
		87-90-1

Persistence and degradability

Biodegradability

Result : hydrolyses

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Additional ecological information

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

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Section 13: Disposal considerations

13.1. Waste treatment methods

Product	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Dispose of in accordance 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

14.1. UN number

||2468

14.2. UN proper shipping name

|| ADR : TRICHLOROISOCYANURIC ACID, DRY
 || RID : TRICHLOROISOCYANURIC ACID, DRY
 || IMDG : TRICHLOROISOCYANURIC ACID, DRY

14.3. Transport hazard class(es)

|| ADR-Class : 5.1
 (Labels; Classification Code; Hazard identification No; Tunnel restriction code) 5.1; O2; 50; (E)

|| RID-Class : 5.1
 (Labels; Classification Code; Hazard identification No) 5.1; O2; 50

|| IMDG-Class : 5.1
 (Labels; EmS) 5.1; F-A, S-Q

14.4. Packaging group

|| ADR : II
 || RID : II
 || IMDG : II

14.5. Environmental hazards

|| Labeling according to 5.2.1.8 ADR : Fish and tree
 || Labeling according to 5.2.1.8 RID : Fish and tree
 || Labeling according to 5.2.1.6.3 IMDG : Fish and tree
 || Classification as environmentally hazardous according to 2.9.3 IMDG : yes

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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

15.2. Chemical Safety Assessment

no data available

Section 16: Other information

Full text of R-phrases referred to under sections 2 and 3.

R 8	Contact with combustible material may cause fire.
R22	Harmful if swallowed.
R31	Contact with acids liberates toxic gas.
R36/37	Irritating to eyes and respiratory system.
R36/38	Irritating to eyes and skin.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R60	May impair fertility.
R61	May cause harm to the unborn child.

Full text of H-Statements referred to under sections 2 and 3.

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

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 regard to safety arrangements and is not to be considered as a warranty or quality

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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.