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BRENNTAG

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

Champion Non Chlorine Shock / Oxidiser

Version 2.0 Print Date 2016/02/24

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

1.1. Product identifier

Trade name : Champion Non Chlorine Shock / Oxidiser

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**
Acute toxicity (Oral)	Category 4	---	H302
Skin corrosion	Category 1B	---	H314
Chronic aquatic toxicity	Category 3	---	H412

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**
Oxidizing (O)Oxidizing (O)	R 8
Corrosive (C)Corrosive (C)	R34
Harmful (Xn)Harmful (Xn)	R22
Harmful (Xn)Sensitising	R42/43
Dangerous for the environment	R52

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 :

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention :

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response : P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

- Pentapotassium bis(peroxymonosulphate) bis(sulphate)
- dipotassium peroxodisulphate

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	
Pentapotassium bis(peroxymonosulphate) bis(sulphate) CAS-No. : 70693-62-8 EC-No. : 274-778-7 EC Registration : 01-2119485567-22-xxxx	>= 86 - <= 96	Acute Tox.4 Skin Corr.1B	H302 H314	Harmful; Xn; R22 Corrosive; C; R34 R52
dipotassium peroxodisulphate Index-No. : 016-061-00-1 CAS-No. : 7727-21-1 EC-No. : 231-781-8	>= 0 - <= 5	Ox. Sol.3 Acute Tox.4 Eye Irrit.2 STOT SE3 Skin Irrit.2 Resp. Sens.1 Skin Sens.1	H272 H302 H319 H335 H315 H334 H317	Oxidizing; O; R 8 Harmful; Xn; R22 Irritant; Xi; R36/37/38 R42/43
Tetra[carbonato(2-)]dihydroxypentamagnesium CAS-No. : 7760-50-1 EC-No. : 231-851-8	>= 1 - <= 2			Irritant; Xi; R36

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

General advice	: Take off all contaminated clothing immediately.
If inhaled	: Remove to fresh air. Give oxygen or artificial respiration if needed. Call a physician immediately.
In case of skin contact	: Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. 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. Inhalation may provoke the following symptoms: Nose bleeding, Irritation, Cough, Discomfort, Skin contact may provoke the following symptoms: Severe irritation, Erythema, Burn, Rash, Eye contact may provoke the following symptoms: irritation, Lachrymation, redness, discomfort. Blurred vision, Ulceration, Ingestion may provoke the following symptoms: Gastrointestinal disturbance
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	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet, Carbon dioxide (CO2)

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. Hazardous decomposition 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.Cool containers/tanks with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Ensure adequate ventilation.

6.2. Environmental precautions

Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Do not contaminate water. Should not be released into the environment.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up	:	Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water.
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

Advice on safe handling	:	Keep container tightly closed. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Do not breathe vapours/dust. Avoid dust formation in confined areas. Keep away from heat and flame.
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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Keep only in the original container.
Advice on protection against fire and explosion	:	Contact with combustible material may cause fire. Keep away from sources of ignition - No smoking. Oxidizing
Further information on storage conditions	:	Keep tightly closed in a dry and cool place. Keep away from heat.
Advice on common storage	:	Keep away from combustible material. Keep away from food, drink and animal feedingstuffs. Never allow product to get in contact with water during storage.

7.3. Specific end use(s)

Specific use(s)	:	No information available.

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.

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection

Advice	:	Required, if exposure limit is exceeded (e.g. OEL). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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	:	>= 480 min
Glove thickness	:	0.5 mm

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. Do not contaminate water. Should not be released into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	:	solid granular
Colour	:	white
Odour	:	none
Odour Threshold	:	no data available
pH	:	2.1 (30 g/l ; 20 °C)
Melting point/range	:	Decomposes before melting.
Boiling point/boiling range	:	Not applicable
Flash point	:	does not flash
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	:	< 0.0000017 hPa

Relative vapour density	:	no data available
Relative density	:	2.35 (20 °C)
Water solubility	:	297 - 357 g/l (22 °C)
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Thermal decomposition	:	no data available
Viscosity, dynamic	:	no data available
Explosivity	:	no data available
Oxidizing properties	:	not oxidising

9.2. Other information

Bulk density	:	1100 - 1400 kg/m3

SECTION 10: Stability and reactivity

10.1. Reactivity

Advice : Stable under recommended storage conditions.

10.2. Chemical stability

Advice : No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Hazardous reactions : Contact with combustible material may cause fire.
Hazardous reactions : no data available

10.4. Conditions to avoid

Conditions to avoid : Excessive heat.Temperatures above 50°C.

10.5. Incompatible materials

Materials to avoid : Keep away from combustible material.
: Halogenated compounds, Cyanides, Heavy metal salts

10.6. Hazardous decomposition products

Hazardous decomposition products : no data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Data for the product		
Acute toxicity		
Oral		
Acute toxicity estimate	:	504.9 mg/kg) (Calculation method)
Inhalation		
no data available		
Dermal		
no data available		
Irritation		
Skin		
no data available		
Eyes		
no data available		
Sensitisation		
no data available		
CMR effects		
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:	**Pentapotassium bis(peroxymonosulphate) bis(sulphate)**	**CAS-No. 70693-62-8**

Acute toxicity

Oral

LD50 Oral	:	500 mg/kg (Rat)

Inhalation

LC50	:	> 5 mg/l (Rat; 4 h)

Dermal

LD50 Dermal	:	2000 mg/kg (Rabbit) (OECD Test Guideline 402)

Irritation

Skin

Result	:	corrosive effects (< 1 h) (OECD Test Guideline 404)

Eyes

Result	:	Causes serious eye damage. (Rabbit) (OECD Test Guideline 405)

Sensitisation

Result	:	not sensitizing (Maximisation Test; Guinea pig) (OECD Test Guideline 406)

CMR effects

CMR Properties

Carcinogenicity	:	no data available

Mutagenicity	:	Ames test: negative
Teratogenicity	:	no data available
Reproductive toxicity	:	no data available

Other toxic properties

Aspiration hazard

Not applicable,

Component:	**Tetra[carbonato(2-)]dihydroxypentamagnesium**	**CAS-No. 7760-50-1**

Acute toxicity

Oral

no data available

Inhalation

no data available

Dermal

no data available

Irritation

Eyes

Result	:	Irritating to eyes.

Sensitisation

Result	:	no data available

CMR effects

CMR Properties

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

Specific Target Organ Toxicity

Single exposure		
Remark	:	no data available

Repeated exposure		
Remark	:	no data available

Other toxic properties

Aspiration hazard

no data available,

Component:	dipotassium peroxodisulphate	CAS-No. 7727-21-1

Acute toxicity

Oral

LD50	:	825 mg/kg (Rat)

Irritation

Skin

Result	:	Mild skin irritation (Rabbit)

Eyes

Result	:	Mild eye irritation

Sensitisation

Result	:	Causes sensitisation. (Guinea pig) May cause sensitisation by inhalation and skin contact.

Other toxic properties

Aspiration hazard

Not applicable,

SECTION 12: Ecological information

12.1. Toxicity

Component:	Pentapotassium bis(peroxymonosulphate) bis(sulphate)	CAS-No. 70693-62-8

Acute toxicity		
Fish		
LC50	:	53 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (Toxicity to fish; OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates		
EC50	:	3.5 mg/l (Daphnia magna (Water flea); 48 h) (OECD Test Guideline 202)
algae		
ErC50	:	> 1 mg/l (Pseudokirchneriella subcapitata (green algae); 96 h) (OECD Test Guideline 201)
Bacteria		
		179 mg/l (Pseudomonas putida; 18 h)

Component:	**Tetra[carbonato(2-)]dihydroxypentamagnesium**	**CAS-No. 7760-50-1**
Acute toxicity		
Fish		
		no data available
Toxicity to daphnia and other aquatic invertebrates		
		no data available
algae		
		no data available

Component:	**dipotassium peroxodisulphate**	**CAS-No. 7727-21-1**
Acute toxicity		
Fish		
LC50	:	100 mg/l (Poecilia reticulata; 96 h)
Toxicity to daphnia and other aquatic invertebrates		
EC50	:	357 mg/l (Daphnia magna; 24 h)

Bacteria		
EC50	:	36 mg/l (Pseudomonas putida)

12.2. Persistence and degradability

Component:	Tetra[carbonato(2-)]dihydroxypentamagnesium	CAS-No. 7760-50-1
Persistence and degradability		
Persistence		
Result	:	no data available
Biodegradability		
Result	:	no data available

Component:	Pentapotassium bis(peroxymonosulphate) bis(sulphate)	CAS-No. 70693-62-8
Persistence and degradability		
Biodegradability		
Result	:	The methods for determining the biological degradability are not applicable to inorganic substances.

Component:	dipotassium peroxodisulphate	CAS-No. 7727-21-1
Persistence and degradability		
Biodegradability		
Result	:	The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Component:	Tetra[carbonato(2-)]dihydroxypentamagnesium	CAS-No. 7760-50-1
Bioaccumulation		
Result	:	no data available

12.4. Mobility in soil

Component:	Tetra[carbonato(2-)]dihydroxypentamagnesium	CAS-No. 7760-50-1

Mobility

: no data available

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component:	Pentapotassium bis(peroxymonosulphate) bis(sulphate)	CAS-No. 70693-62-8

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).

Component:	Tetra[carbonato(2-)]dihydroxypentamagnesium	CAS-No. 7760-50-1

Results of PBT and vPvB assessment

Result : no data available

12.6. 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. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
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

3260

14.2. UN proper shipping name

ADR : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(Pentapotassium bis(peroxymonosulphate) bis(sulphate))

RID : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(Pentapotassium bis(peroxymonosulphate) bis(sulphate))

IMDG : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(Pentapotassium bis(peroxymonosulphate) bis(sulphate))

14.3. Transport hazard class(es)

ADR-Class	: 8
(Labels; Classification Code; Hazard identification No; Tunnel restriction code)	8; C2; 80; (E)
RID-Class	: 8
(Labels; Classification Code; Hazard identification No)	8; C2; 80
IMDG-Class	: 8
(Labels; EmS)	8; F-A, S-B

14.4. Packaging group

ADR	: II
RID	: II
IMDG	: II

14.5. Environmental hazards

Environmentally hazardous according to ADR	: no
Environmentally hazardous according to RID	: no
Marine Pollutant according to IMDG-Code	: no

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.
R34	Causes burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitisation by inhalation and skin contact.
R52	Harmful to aquatic organisms.

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

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

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.

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

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.