

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

CHAMPION BROMINE (BCDMH) TABLETS

Version 1.0 Print Date 2023/03/03

Revision date / valid from 2023/03/03

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

1.1. Product identifier

Trade name : CHAMPION BROMINE (BCDMH) TABLETS

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

Use of the : biocidal product, disinfectant, Water treatment chemical

Substance/Mixture

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 : Emergency only telephone number (open 24 hours):

number +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)

Regulation S.I. 2019/720 (GB CLP)			
Hazard class	Hazard category	Target Organs	Hazard statements
Oxidizing solids	Category 2		H272
Acute toxicity (Oral)	Category 4		H302
Skin corrosion	Sub-category 1B		H314
Skin sensitisation	Category 1		H317



Short-term (acute) aquatic hazard	Category 1	 H400
Long-term (chronic) aquatic hazard	Category 1	 H410

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 S.I. 2019/720 (GB CLP)

Hazard symbols









Signal word Danger

Hazard statements H272 May intensify fire; oxidizer.

Harmful if swallowed. H302

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting

effects.

Precautionary statements

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Prevention Keep away from heat, hot surfaces, sparks, P210

open flames and other ignition sources. No

smoking.

P220 Keep away from clothing and other

combustible materials.

P260 Do not breathe dust.

Avoid release to the environment. P273

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing.

ΕN

Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. 2/18



Immediately call a POISON CENTER/

doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P370 + P378 In case of fire: Use dry sand, dry chemical

or alcohol-resistant foam to extinguish.

P391 Collect spillage.

Additional Labelling:

EUH031 Contact with acids liberates toxic gas.

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

Hazardous components which must be listed on the label:

• Bromochloro-5,5-dimethylimidazolidine-2,4-dione

2.3. Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical nature : Biocidal product

			Classification (Regulation S.I. 2019/720 (GB CLP))	
Haz	zardous components	Amount [%]	Hazard class / Hazard category	Hazard statements
Bromochlo	Bromochloro-5,5-dimethylimidazolidine-2,4-dione			
CAS-No. EC-No.	: 32718-18-6 : 251-171-5	<= 100	Ox. Sol.2 Acute Tox.4 Oral Skin Corr.1B Skin Sens.1 Aquatic Acute1 Aquatic Chronic1	H272 H302 H314 H317 H400 H410



Acute toxicity estimate Acute oral toxicity: 1500

mg/kg

Acute dermal toxicity: 2000.01 mg/kg

EUH031

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. Effects may be

delayed. Keep affected person under observation.

If inhaled : In case of accident by inhalation: remove casualty to fresh air

and keep at rest. If breathing is irregular or stopped, administer

artificial respiration. Call a physician immediately.

In case of skin contact : Wash off immediately with soap and plenty of water. Call a

physician immediately.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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. 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 : Extremely corrosive and destructive to tissue. If ingested,

severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. 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.

SECTION 5: Firefighting measures



Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

High volume water jet

Special hazards arising from the substance or mixture

Specific hazards during

firefighting

In the event of fire and/or explosion do not breathe fumes. May intensify fire; oxidizer. Contact with flammables may

cause fire or explosions.

Hazardous combustion

products

Hydrogen chloride

5.3. Advice for firefighters

Special protective

equipment for firefighters

In the event of fire, wear self-contained breathing

apparatus. Wear appropriate body protection (full protective

suit)

Specific extinguishing

methods

Further advice

Control smoke with water spray.

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 : Keep away unprotected persons. Use personal protective

equipment. Ensure adequate ventilation. Avoid contact with

skin and eyes. Do not breathe dust.

Environmental precautions 6.2.

Environmental precautions

: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers

and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

containment and cleaning

Methods and materials for : Use neutralizing agent. Use mechanical handling equipment.

Keep in suitable, closed containers for disposal.

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

considerations".

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. Do not breathe vapours/dust. Use respirator with appropriate filter if vapours or aerosol are released. 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 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 : Store in original container.

areas and containers

Advice on protection

against fire and explosion

: Oxidizing; Contact with combustible material may cause fire.

Keep away from sources of ignition - No smoking.

Further information on

storage conditions

: Keep tightly closed in a dry and cool place.

Advice on common

storage

: Keep away from combustible material. Keep away from food,

drink and animal feedingstuffs. Keep away from oxidizing

agents. Keep away from strong acids.

Specific end use(s) 7.3.

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.

Personal protective equipment



Respiratory protection

Advice : In case of brief exposure or low pollution use breathing filter

apparatus.

Respiratory protection complying with EN 141.

In case of intensive or longer exposure use self-contained

breathing apparatus.

Hand protection

Advice : Protective gloves complying with EN 374.

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 : natural rubber

Eye protection

Advice : Safety goggles

Face-shield

Skin and body protection

Advice : Impervious clothing

Chemical resistant apron

Environmental exposure controls

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

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform

respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form : solid

Physical state : solid

Colour : yellowish

Odour : characteristic

Odour Threshold : No data available

Freezing point : No data available

Boiling point : No data available

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Flammability No data available

Upper explosion limit / Upper : No data available

flammability limit

Lower explosion limit / Lower :

flammability limit

No data available

Flash point No data available

Auto-ignition temperature No data available

Decomposition temperature No data available

Self-Accelerating

decomposition temperature

(SADT)

No data available

pΗ No data available

Viscosity

Viscosity, dynamic No data available

Viscosity, kinematic No data available

Flow time No data available

Solubility(ies)

Water solubility soluble

Solubility in other solvents : No data available

Dissolution Rate No data available

Partition coefficient: n-

octanol/water

: No data available

Dispersion Stability No data available

Vapour pressure No data available

Relative density : No data available

Density No data available

No data available Bulk density

Relative vapour density : No data available

Particle characteristics No data available

9.2 Other information



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: The product does not present an explosion hazard. **Explosives**

SECTION 10: Stability and reactivity

10.1. Reactivity

Advice : No decomposition if stored and applied as directed.

> 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.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

: Contact with combustible material may cause fire. Hazardous reactions

10.4. Conditions to avoid

Conditions to avoid : No information available.

10.5. Incompatible materials

Materials to avoid : Keep away from combustible material.

: Acids, Metals, Metal oxides, alloys, Flammable materials

10.6. Hazardous decomposition products

Hazardous decomposition : hydrogen chloride, Bromine

products

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SECTION 11: Toxicological information

11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

ata for the pro	duct
	Acute toxicity
	Oral
	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
	Inhalation
	No data available
	Dermal
	No data available

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Irritation

Skin

Result : Causes severe skin burns and eye damage.

Eyes

Result : Causes severe skin burns and eye damage.

Sensitisation

Result : May cause an allergic skin reaction.

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: Bromochloro-5,5-dimethylimidazolidine-2,4- CAS-No. 32718-18-6

dione

Acute toxicity

Oral

LD50 : 1500 mg/kg (Rat) Harmful if swallowed.

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Inhalation

No data available

Dermal

LD50 : > 2000 mg/kg (Rabbit)

Irritation

Skin

Result : Corrosive

Eyes

Result : corrosive effects

Sensitisation

Result : May cause an allergic skin reaction.

CMR effects

CMR Properties

Carcinogenicity : No data available
Mutagenicity : No data available
Reproductive toxicity : No data available

Specific Target Organ Toxicity

Single exposure

Remarks : No data available

Repeated exposure

Remarks : No data available

Other toxic properties

Aspiration hazard

No data available,

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11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Component: Bromochloro-5,5-dimethylimidazolidine-2,4- CAS-No. 32718-18-6 dione

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties

for human health.

SECTION 12: Ecological information

12.1. Toxicity

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Data for the product		
	Acute toxicity	
	Short-term (acute) aquatic hazard	
Result	: Very toxic to aquatic life.	
	Chronic toxicity	
Long-term (chronic) aquatic hazard		
Result	: Very toxic to aquatic life with long lasting effects.	
Component:	Bromochloro-5,5-dimethylimidazolidine-2,4- CAS-No. 32718-18-6 dione	
	Acute toxicity	
	Fish	
LC50 LC50	 0.4 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (static test) 0.46 mg/l (Lepomis macrochirus (Bluegill sunfish); 96 h) (static test) 	
Toxicity to daphnia and other aquatic invertebrates		
LC50	: 0.75 mg/l (Daphnia magna (Water flea); 48 h)	

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algae

: No data available

12.2. Persistence and degradability

Component:	Bromochloro-5,5-dimethylimidazolidine-2,4- dione	CAS-No. 32718-18-6	
	Persistence and degradability		
Persistence			
Result	: No data available		
Biodegradability			

Result : No data available

12.3. Bioaccumulative potential

Component:	Bromochloro-5,5-dimethylimidazolidine-2,4- dione	CAS-No. 32718-18-6
	Bioaccumulation	

Result : No data available

12.4. Mobility in soil

Component:	Bromochloro-5,5-dimethylimidazolidine-2,4-	CAS-No. 32718-18-6
	dione	
	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.	
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Bromochloro-5,5-dimethylimidazolidine-2,4-Component: CAS-No. 32718-18-6

dione

Results of PBT and vPvB assessment

Result : No data available

12.6. Endocrine disrupting properties

Data for the product

Endocrine disrupting potential

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Bromochloro-5,5-dimethylimidazolidine-2,4-CAS-No. 32718-18-6 Component: dione

Endocrine disrupting

potential

No information available about endocrine disruption properties for

environment.

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.

Harmful effects to aquatic organisms due to pH-shift.

Result

Bromochloro-5,5-dimethylimidazolidine-2,4-CAS-No. 32718-18-6 Component:

dione

Additional ecological information

Do not flush into surface water or sanitary sewer system. Result

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. This product shall be disposed of or recovered in compliance with

Directive 2008/98/EC on waste as lastly amended.

Contaminated packaging Empty contaminated packagings thoroughly. They can be

recycled after thorough and proper cleaning. If recycling is not

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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

14.1. UN number or ID number

3085

14.2. UN proper shipping name

ADR : OXIDIZING SOLID, CORROSIVE, N.O.S.

(Bromochloro-5,5-dimethylimidazolidine-2,4-dione)

RID : OXIDIZING SOLID, CORROSIVE, N.O.S. IMDG : OXIDIZING SOLID, CORROSIVE, N.O.S.

(Bromochloro-5,5-dimethylimidazolidine-2,4-dione)

14.3. Transport hazard class(es)

ADR-Class : 5.1

(Labels; Classification Code; Hazard 5.1, 8; OC2; 58; (E)

Identification Number; Tunnel restriction

code)

RID-Class : 5.1

(Labels; Classification Code; Hazard 5.1, 8; OC2; 58

Identification Number)

IMDG-Class : 5.1

(Labels; EmS) 5.1, 8; F-A, S-Q

14.4. Packaging group

ADR : II RID : II IMDG : II

14.5. Environmental hazards

Environmentally hazardous according to ADR : yes Environmentally hazardous according to RID : yes Marine Pollutant according to IMDG-Code : yes

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: Bromochloro-5,5-dimethylimidazolidine-2,4- CAS-No. 32718-18-6 dione

EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325) EC Number: , 251-171-5; Listed

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I Qualifying quantity for the application of Lower-tier requirements: 50 tonnes; Part 1: Categories of dangerous substances; Oxidising Liquids, Category 1, 2 or 3, or; Oxidising Solids, Category 1, 2 or 3

Qualifying quantity for the application of Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; Oxidising Liquids, Category 1, 2 or 3, or; Oxidising

Solids, Category 1, 2 or 3

Qualifying quantity for the application of Lower-tier requirements: 100 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in

Category Acute 1 or Chronic 1

Qualifying quantity for the application of Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in

Category Acute 1 or Chronic 1

Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as

Germany. Ordinance on : WGK 2: obviously hazardous to water: 5,198

15.2. Chemical safety assessment

No data available

amended

SECTION 16: Other information

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



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H272 May intensify fire; oxidizer. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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

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 Authorisation Application Consultation Number REACH AuthAppC. No.

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 INVL 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 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.