

*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 Substance/Mixture : biocidal product, disinfectant, Water treatment chemical

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)****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              |

## CHAMPION BROMINE (BCDMH) TABLETS

|                                    |            |     |      |
|------------------------------------|------------|-----|------|
| 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.  
H302 Harmful if swallowed.  
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

Prevention : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220 Keep away from clothing and other combustible materials.  
P260 Do not breathe dust.  
P273 Avoid release to the environment.  
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. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## CHAMPION BROMINE (BCDMH) TABLETS

|                    |   |
|--------------------|---|
|                    | Immediately call a POISON CENTER/<br>doctor.  |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with<br>water for several minutes. Remove contact<br>lenses, if present and easy to do. Continue<br>rinsing. |
| P370 + P378        | In case of fire: Use dry sand, dry chemical<br>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<br>(Regulation S.I. 2019/720 (GB CLP)) |                   |
|--|------------|---|-------------------|
| Hazardous components                                   | Amount [%] | Hazard class / Hazard category                        | Hazard statements |
| <b>Bromochloro-5,5-dimethylimidazolidine-2,4-dione</b> |            |   |                   |
| CAS-No. : 32718-18-6                                   | <= 100     | Ox. Sol.2   | H272              |
| EC-No. : 251-171-5                                     |            | Acute Tox.4 Oral                                      | H302              |
|  |            | Skin Corr.1B  | H314              |
|  |            | Skin Sens.1   | H317              |
|  |            | Aquatic Acute1  | H400              |
|  |            | Aquatic Chronic1                                      | H410              |

## CHAMPION BROMINE (BCDMH) TABLETS

|  |        |
|--|--------|
| Acute toxicity estimate<br>Acute oral toxicity: 1500<br>mg/kg<br>Acute dermal toxicity:<br>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

## **CHAMPION BROMINE (BCDMH) TABLETS**

### **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   |

### **5.2. 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                | : | Control smoke with water spray.  |
| 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 | : | Keep away unprotected persons. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe dust. |
|----------------------|---|---|

### **6.2. Environmental precautions**

- |                           |   |  |
|---------------------------|---|--|
| 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. |
|---------------------------|---|--|

### **6.3. Methods and materials for containment and cleaning up**

- |   |   |  |
|---|---|--|
| Methods and materials for containment and cleaning up | : | 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".                              |

### **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.

## **CHAMPION BROMINE (BCDMH) TABLETS**

### **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 areas and containers : Store in original container.
- 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.

#### **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.

##### **Personal protective equipment**

## **CHAMPION BROMINE (BCDMH) TABLETS**

### *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 |

## **CHAMPION BROMINE (BCDMH) TABLETS**

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

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

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

Bulk density : No data available

Relative vapour density : No data available

Particle characteristics  
No data available

### **9.2 Other information**



## **CHAMPION BROMINE (BCDMH) TABLETS**

Explosives : The product does not present an explosion hazard.

### **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**

Hazardous reactions : Contact with combustible material may cause fire.

#### **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 products : hydrogen chloride, Bromine

### **SECTION 11: Toxicological information**

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

##### **Data for the product**

##### **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

## CHAMPION BROMINE (BCDMH) TABLETS

### 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-dione

**CAS-No.** 32718-18-6

### Acute toxicity

#### Oral

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

**CHAMPION BROMINE (BCDMH) TABLETS****Inhalation**

No data available

**Dermal**

LD50 : &gt; 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,

## CHAMPION BROMINE (BCDMH) TABLETS

### 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.

|                   |  |                           |
|-------------------|--|---------------------------|
| <b>Component:</b> | <b>Bromochloro-5,5-dimethylimidazolidine-2,4-dione</b> | <b>CAS-No. 32718-18-6</b> |
|-------------------|--|---------------------------|

##### Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### 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.

|                   |  |                           |
|-------------------|--|---------------------------|
| <b>Component:</b> | <b>Bromochloro-5,5-dimethylimidazolidine-2,4-dione</b> | <b>CAS-No. 32718-18-6</b> |
|-------------------|--|---------------------------|

##### Acute toxicity

##### Fish

LC50 : 0.4 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (static test)  
 LC50 : 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)

**CHAMPION BROMINE (BCDMH) TABLETS**

---

**algae**

---

: No data available

**12.2. Persistence and degradability**

|                   |  |                           |
|-------------------|--|---------------------------|
| <b>Component:</b> | <b>Bromochloro-5,5-dimethylimidazolidine-2,4-dione</b> | <b>CAS-No. 32718-18-6</b> |
|-------------------|--|---------------------------|

**Persistence and degradability****Persistence**

---

Result : No data available

---

**Biodegradability**

---

Result : No data available

**12.3. Bioaccumulative potential**

|                   |  |                           |
|-------------------|--|---------------------------|
| <b>Component:</b> | <b>Bromochloro-5,5-dimethylimidazolidine-2,4-dione</b> | <b>CAS-No. 32718-18-6</b> |
|-------------------|--|---------------------------|

**Bioaccumulation**

---

Result : No data available

**12.4. Mobility in soil**

|                   |  |                           |
|-------------------|--|---------------------------|
| <b>Component:</b> | <b>Bromochloro-5,5-dimethylimidazolidine-2,4-dione</b> | <b>CAS-No. 32718-18-6</b> |
|-------------------|--|---------------------------|

**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.

## CHAMPION BROMINE (BCDMH) TABLETS

|                   |  |                           |
|-------------------|--|---------------------------|
| <b>Component:</b> | <b>Bromochloro-5,5-dimethylimidazolidine-2,4-dione</b> | <b>CAS-No. 32718-18-6</b> |
|-------------------|--|---------------------------|

### 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.

|                   |  |                           |
|-------------------|--|---------------------------|
| <b>Component:</b> | <b>Bromochloro-5,5-dimethylimidazolidine-2,4-dione</b> | <b>CAS-No. 32718-18-6</b> |
|-------------------|--|---------------------------|

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 :

|                   |  |                           |
|-------------------|--|---------------------------|
| <b>Component:</b> | <b>Bromochloro-5,5-dimethylimidazolidine-2,4-dione</b> | <b>CAS-No. 32718-18-6</b> |
|-------------------|--|---------------------------|

#### 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. 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

## CHAMPION BROMINE (BCDMH) TABLETS

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 Identification Number; Tunnel restriction code) 5.1, 8; OC2; 58; (E)  
RID-Class : 5.1  
(Labels; Classification Code; Hazard Identification Number) 5.1, 8; OC2; 58  
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.

## CHAMPION BROMINE (BCDMH) TABLETS

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

|                   |  |                           |
|-------------------|--|---------------------------|
| <b>Component:</b> | <b>Bromochloro-5,5-dimethylimidazolidine-2,4-dione</b> | <b>CAS-No. 32718-18-6</b> |
|-------------------|--|---------------------------|

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 amended : WGK 2: obviously hazardous to water: 5,198

#### 15.2. Chemical safety assessment

No data available

### SECTION 16: Other information

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



## CHAMPION BROMINE (BCDMH) TABLETS

|      |   |
|------|---|
| 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

|                  |   |
|------------------|---|
| <b>AU AIICL</b>  | Australia. Industrial Chemicals Act (AIIC) List                         |
| <b>BCF</b>       | bioconcentration factor   |
| <b>BOD</b>       | biochemical oxygen demand   |
| <b>CAS</b>       | Chemical Abstracts Service  |
| <b>CLP</b>       | Classification, Labelling and Packaging                                 |
| <b>CMR</b>       | carcinogenic, mutagenic or toxic to reproduction                        |
| <b>COD</b>       | chemical oxygen demand  |
| <b>DNEL</b>      | derived no-effect level   |
| <b>DSL</b>       | Canada. Environmental Protection Act, Domestic Substances List          |
| <b>EINECS</b>    | European Inventory of Existing Commercial Chemical Substances           |
| <b>ELINCS</b>    | European List of Notified Chemical Substances                           |
| <b>ENCS (JP)</b> | Japan. Kashin-Hou Law List  |
| <b>GHS</b>       | Globally Harmonized System of Classification and Labelling of Chemicals |
| <b>IECSC</b>     | China. Inventory of Existing Chemical Substances                        |
| <b>INSQ</b>      | Mexico. National Inventory of Chemical Substances                       |
| <b>ISHL (JP)</b> | Japan. Inventory of Industrial Safety & Health                          |
| <b>KECI (KR)</b> | Korea. Existing Chemicals Inventory                                     |
| <b>LC50</b>      | median lethal concentration   |
| <b>LOAEC</b>     | lowest observed adverse effect concentration                            |
| <b>LOAEL</b>     | lowest observed adverse effect level                                    |
| <b>LOEL</b>      | lowest observed effect level  |
| <b>NDSL</b>      | Canada. Environmental Protection Act. Non-Domestic Substances List      |
| <b>NLP</b>       | no-longer polymer   |
| <b>NOAEC</b>     | no observed adverse effect concentration                                |
| <b>NOAEL</b>     | no observed adverse effect level  |
| <b>NOEC</b>      | no observed effect concentration  |
| <b>NOEL</b>      | no observed effect level  |
| <b>NZIOC</b>     | New Zealand. Inventory of Chemicals                                     |
| <b>OECD</b>      | Organisation for Economic Cooperation and Development                   |
| <b>OEL</b>       | occupational exposure limit   |
| <b>ONT INV</b>   | Canada. Ontario Inventory List  |
| <b>PBT</b>       | persistent, bioaccumulative and toxic                                   |

## CHAMPION BROMINE (BCDMH) TABLETS

|                            |   |
|----------------------------|---|
| <b>PHARM (JP)</b>          | Japan. Pharmacopoeia Listing  |
| <b>PICCS (PH)</b>          | Philippines. Inventory of Chemicals and Chemical Substances                                     |
| <b>PNEC</b>                | predicted no-effect concentration   |
| <b>REACH Auth. No.:</b>    | REACH Authorisation Number  |
| <b>REACH AuthAppC. No.</b> | REACH Authorisation Application Consultation Number   |
| <b>STOT</b>                | specific target organ toxicity  |
| <b>SVHC</b>                | substance of very high concern  |
| <b>TCSI</b>                | Taiwan. Existing Chemicals Inventory  |
| <b>TH INV</b>              | Thailand. Existing Chemicals Inventory from FDA   |
| <b>TSCA</b>                | US. Toxic Substances Control Act  |
| <b>UVCB</b>                | substance of unknown or variable composition, complex reaction products or biological materials |
| <b>VN INVL</b>             | Vietnam. National Chemical Inventory  |
| <b>vPvB</b>                | 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                              | : | <p>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.</p> <p>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.</p> |

|| Indicates updated section.