

SAFETY DATA SHEET

1 Identification of the substance or preparation and of the company/undertaking

1.1 Product identifier

Product Name: **AQUABROME TABLETS**
Datasheet Number: 720243-R 3. 0. 0
Product Part Number: 720243 (2X5KG)
Head Office:: Wilhelmsen Ships Service
Address: Strandveien 20 N1324 Lysaker, Norway, Tel: (+47) 67 58 45 50

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

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier: For quotations contact your local Customer Services
Address of Supplier: Wilhelmsen Ships Service AS
Willem Barentszstraat 50
3165AB Rotterdam
The Netherlands
Telephone: +31 10 4877 777
Fax: +31 10 4877 888
Responsible Person: , Product HSE Manager, Tel.: +31 10 4877775
Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com

1.4 Emergency telephone number

-ONLY TO BE USED IN CASE OF AN INCIDENT-
NCEC: +44 1865 407333, CHEMTREC (800) 424 9300
American Chemistry Council +1 703 527 3887,
Greece +30 210 7793777
Australia: +61 3 9630 0998
Giftinformasjonssentralen in Norway Tel.: +47 22591300

2 Hazards identification

2.1 Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
-
- Harmful if swallowed (R22)
- Contact with acids liberates toxic gas (R31)
- Causes burns (R34)
- Very toxic to aquatic organisms (R50)

2.2 Label elements

2 Hazards identification (....)



Corrosive



Dangerous for the Environment

- Contains:
- CAS:327-18-18-6

Risk Phrases

- Harmful if swallowed (R22)
- Contact with acids liberates toxic gas (R31)
- Causes burns (R34)
- Very toxic to aquatic organisms (R50)

Safety Phrases

- Keep locked up and out of reach of children (S1/2)
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point (S29/56)
- Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
- Keep container tightly closed and dry (S7/8)

2.3 Other hazards

- Odour: Characteristic odour
- Appearance: Tablets, light, yellow, soluble in water
- Contact with eyes: Causes irritation
- Inhalation: May cause irritation

3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Bromo-chloro-5,5-dimethyl-hydantoin	>90	32718-18-6	251-171-5	R34, 22, 50	C, O, Xn

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- When in doubt or symptoms persist, seek medical attention
-
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Obtain immediate medical attention
-
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

4 First aid measures (....)

- Give plenty of water to drink
- Never make an unconscious person vomit or drink fluids
- Obtain immediate medical attention
-
- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

- In cases of severe exposure, breathing difficulty may develop
- Causes redness and irritation

4.3 Indication of immediate medical attention and special treatment needed

5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use water for extinction
- Do not use dry agent
- Carbon dioxide extinguishers are unsuitable and should not be used

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure

5.3 Advice for firefighters

- Substance evolves toxic fumes, wear self-contained breathing apparatus
-

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

- Collect as much as possible in clean container for reuse or disposal
- Do not absorb spillage in sawdust or other combustible material
- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

- None
-

7 Handling and storage

7.1 Precautions for safe handling

- See Section 8
 - Do not mix with any other products
 - Eyewash bottles should be available
 - Ensure adequate ventilation
 - Avoid contact with combustible material
-

7 Handling and storage (...)

- Do not breathe dust/fume/gas/mist/vapours/spray.

7.2 Conditions for safe storage, including any incompatibilities

- Keep only in the original container in a cool, well ventilated place away from acid (S3/9/14/49)
- Keep only in the original container in a cool, well ventilated place away from combustible material (S3/9/14/49)

7.3 Specific end use(s)

8 Exposure controls/personal protection

8.1 Control parameters

- Bromo-chloro-5,5-dimethyl-hydantoin
No exposure limits have been set for this substance

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations as low as practicable

Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (butyl rubber are recommended)
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask



Gloves



Goggles

Respirator

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Characteristic odour
- Appearance: Tablets, light, yellow, soluble in water
- pH 3.5 at 1g/l % concentration
- Melting point 140 °C to 160 °C
- Water solubility 25C - 1500 mg/l
- Density 1.9 g/cm³
- Not flammable but will support combustion

9.2 Other information

10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- Considered stable under normal conditions
-

10 Stability and reactivity (....)

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Avoid contact with acids and alkalis

10.5 Incompatible materials

- Contact with acid may form toxic gases

10.6 Hazardous Decomposition Products

- Decomposition products may include hydrogen chloride
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11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, rat) 578 mg/kg
- LD50 (dermal) : (rabbit) >2000 mg/kg

Inhalation

- Causes irritation

Contact with skin

- Causes redness and irritation

Contact with eyes

- Causes redness and irritation

Ingestion

- Not regarded as a potential route of exposure.
 - No information available but must be considered harmful
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12 Ecological information

12.1 Toxicity

- EC50 (Daphnia magna) 0.46 mg/l (48 hr)
- LC50 (rainbow trout) 0.87 mg/l (96 hr)

12.2 Persistence and degradability

- Degrades by hydrolysis

12.3 Bioaccumulation Potential

- Low bioaccumulation potential

12.4 Mobility in soil

- Water solubility 1500 Mg/l % at 25 °C

12.5 Results of PBT and vPvB assessment

12.6 Other Adverse Effects

13 Disposal considerations

13 Disposal considerations (....)

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation

Classification

- EU Waste class: 06 03 14
- This material and/or its container must be disposed of as hazardous waste

14 Transport information



Oxidizing Agent



Corrosive

14.1 UN Number

- UN3085

14.2 UN Proper Shipping Name

- OXIDIZING SOLID, CORROSIVE, N.O.S.
(Bromo-chloro-5,5-dimethylhydantoin)

14.3 Transport hazard class(es)

- 5.1+8

14.4 Packing group

- II

14.5 Environmental hazards

- Presents little or no hazard to the environment

14.6 Special precautions for user

- Forbidden on passenger aircraft

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	OXIDIZING SOLID, CORROSIVE, N.O.S. (Bromo-chloro-5,5-dimethylhydantoin)		
ADR UN No.:	UN3085	ADR Hazard Class:	5.1
ADR Packing Group:	II	ADR subrisk:	8
ADR Flashpoint:	n/a		

Sea (IMDG)

Proper Shipping Name:	OXIDIZING SOLID, CORROSIVE, N.O.S. (Bromo-chloro-5,5-dimethylhydantoin)		
IMDG UN No.:	UN3085	IMDG Hazard Class.:	5.1
IMDG Pack Group.:	II	IMDG EmS:	F-A, S-Q
IMDG subrisk:	8	IMDG Flashpoint:	n/a

14 Transport information (....)

Air (ICAO/IATA)

Proper Shipping Name:	OXIDIZING SOLID, CORROSIVE, N.O.S. (Bromo-chloro-5,5-dimethylhydantoin)		
ICAO Un No.:	UN3085	ICAO Hazard Class.:	5.1
ICAO Packing Group.:	II	ICAO subrisk:	8
ICAO Flashpoint:	n/a		

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	OXIDIZING SOLID, CORROSIVE, N.O.S. (Bromo-chloro-5,5-dimethylhydantoin)		
Hazardous Material:	Bromo-chloro-5,5-dimethylhydantoin		
Hazard Class:	8	Identification Number:	UN3085
Product RQ (lbs):	n/a	DOT subrisk:	8
DOT Flashpoint:	n/a		

15 Regulatory information

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

- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
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- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

15.2 Chemical Safety Assessment

None

16 Other information

Text of R and S phrase codes used in this safety data sheet:- R22: Harmful if swallowed; R34: Causes burns; R50: Very toxic to aquatic organisms.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

The most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipsservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

For addresses of other Wilhelmsen Ships Service offices, please refer to www.wilhelmsen.com/shipsservice

Wilhelmsen Ships Service Level 1, 39 Park Street South Melbourn, Vic 3205 Australian Tel:+61 3 9630 0900
Emergency 24hrs: +61 3 9630 0998

16 Other information (....)

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