

TECHNICAL DATA SHEET

Product Name : Aquabrome

1. IDENTIFICATION OF CHEMICAL

Product Name : Aquabrome, BCDMH, Brominating Tabs, Hydrobrome Tabs
Chemical Name : Bromo-chloro-5, 5-dimethylhydantoin. (BCDMH)

2. COMPOSITION

Ingredients: Phrases	Wt%	CAS No.	EEC	No.
Bromo-chloro-5, 5-dimethylhydantoin R22, 31, 34, 50	93-99%	32718-18-6	251-171-5	

3. HAZARDS IDENTIFICATION

Corrosive : Causes burns. Harmful if swallowed. Very toxic to aquatic organisms.

4. FIRST AID MEASURES

Skin Contact : Remove contaminated clothing. Rinse skin immediately with plenty of water. If skin irritation persists, seek medical attention.

Eye Contact : Flush eyes with cold flowing water for at least 20 minutes. Seek medical attention immediately.

Ingestion : Rinse mouth thoroughly. **DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.** Seek medical attention.

Inhalation : Provide fresh air, warmth and rest, preferably in a comfortable sitting position. Seek medical assistance.

5. FIRE FIGHTING MEASURES

Extinguishing Media : Use : Water spray, fog or mist. Alcohol resistant foam. DO NOT USE CO² or dry chemicals

Unusual Fire/Explosion Hazards : Fire causes formation of toxic gases.

Hazardous Combustion Products : Toxic gases/vapours/fumes of; Bromine. Chlorine, Oxides of Carbon. Nitrogen.

Protective Measures in Fire : Use of self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Spill Clean-up Methods : Provide ventilation and confine spill. Do not allow run-off to sewer. Collect and reclaim or dispose in sealed containers as licensed waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash thoroughly after dealing with a spillage. Avoid generation and spreading of dust.

7. HANDLING AND STORAGE

Handling : Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not use in confined spaces without adequate ventilation and/or respirator. Avoid spilling, skin and eye contact.

Storage : Keep in cool, dry, ventilated storage and closed containers. Keep containers tightly closed. Protect from light, including direct sun rays. Keep away from heat, sparks and open flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General : No exposure limits noted for ingredient(s). Use engineering controls to reduce air contamination to permissible exposure level. All handling to take place in well ventilated area. Selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Gloves should be replaced immediately if signs of degradation are observed. It has been found that gloves made from rubber, neoprene or PVC provide short-term splash protection.

PPE :

- Respiratory :** Use respiratory protection for general dust inhalation protection.
- Skin :** Wear rubber gloves when handling this product. Avoid contact with skin.
- Eyes :** Wear goggles or safety glasses with side shields when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour: Off-white
Physical State : Solid
Odour and Appearance : Tablet, faint halogen odour
pH : 3 – 3.5 (1% solution @ 25°C)
Melting Point : Sublimes at 145 - 160°C approx.
Solubility in water : Slightly soluble in water
Specific Gravity : 0.96 g/cm³

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10. STABILITY AND REACTIVITY

Conditions to Avoid : Avoid contact with oxidisers or reducing agents.
Avoid contact with acids and alkalis.
Avoid heat, flames and other sources of ignition.

Hazardous Decomposition

Products : Toxic gases/vapours/fumes of : Hydrogen Bromide (HBr).
Bromine.
Hydrogen Chloride (HCl). Chlorine.
Oxides of : Carbon. Nitrogen.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : Oral LD50 578 mg/kg (rat)
Specific symptoms : Dermal LD50 >2000 mg/kg (rabbit)

12. ECOLOGICAL INFORMATION

Ecotoxicological Data : Acute toxicity. LC50 96 hours fish 0.87 mg/l
Acute toxicity. EC50 48 hours Daphnia 0.46 mg/l
Chemical oxygen demand, COD 1.005 g/g

Bioaccumulation : Low bioaccumulation potential
Degradability : Degrades by hydrolysis

13. DISPOSAL CONSIDERATIONS

General Cleaning : Do not reuse empty containers. Triple rinse drums prior to recycling or disposal.

Disposal Methods : Dispose of in accordance with Local Authority requirements.

Waste Class : 07 01 99

14. TRANSPORT INFORMATION

UN No. 3085
UK Road Transport Class : 5.1 + 8
UK Road Packing Group : II
ADR Class No. : 5.1 + 8
ADR Classification Code : OC3
Proper Shipping Name : Oxidising Solid, Corrosive N.O.S., (contains bromo-chloro-5, 5-dimethylhydantoin)
UN No Sea : 3085
IMDG Class : 5.1 + 8
IMDG Packing Group : II
EMs No. : F-A, S-Q
UN No. Air : 3085
ICAO Class : 5.1
Air Packing Group : II
Air Sub Class : 8

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15. REGULATORY INFORMATION

Product Name :	BCDMH
Hazard Symbol :	Corrosive, Dangerous for the Environment.
Risk Phrases :	R22 : Harmful if swallowed. R31 : Contact with acids liberates toxic gas. R34 : Causes burns. R50 : Very toxic to aquatic organisms.
Safety Phrases :	S1/2 : Keep locked up and out of reach of children. S7/8 : Keep container tightly closed and dry. S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical attention. S29/56 : Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. S37/39 : Wear suitable gloves and eye/face protection. S41 : In case of fire and/or explosion, do not breathe fumes. S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible).

16. OTHER INFORMATION

Recommended uses and restrictions : **No further information**

Further information sources : **No further information**

Sources of key data used to compile Safety Data Sheet

Approved supply list. Approved carriage list, EH40

The data in this Safety Data Sheet has been supplied as required by the Chemicals (Hazard Identification and Packaging) Regulations 1997, as amended for the purpose of protecting the health and safety of industrial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your Company who are capable of acting on the information.

This data sheet does not constitute a users assessment of the workplace risk as required by the Health & Safety Work Act, COSHH, Management of Health & Safety at Work or other health and safety legislation.

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