



Safety Data Sheet

Legal Disclaimer

The information and recommendations in this publication are, to the best of our knowledge, information and belief, accurate at the date of publication. Nothing herein is to be construed as a warranty, express or implied. In all cases it is the responsibility of the users to determine the applicability of such information or the suitability of any products for their own particular purpose.

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Revision Date: 11.08.2009

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1. Identification of Products

Product Name:	Guardex Hydrobrome Granules
Product Code:	20 35 580 005 20 35 558 050
Chemical Name:	Bromo – Chloro-5,5 dimethylhydantoin. (BCDMH)
Other Names:	1-Bromo-3-chloro-5,5 dimethylhydantoin.

Distributed by: Golden Coast Ltd | Fishleigh Road | Roundswell Commercial Park West | Barnstaple | Devon | EX31 3UA | Tel: 01271 378100 | e-mail: swimmer@goldenc.com

2. Composition

Substance:	Bromo-chloro-5,5-dimethylhydantoin
% OR Range:	93-99
EC Number:	251-171-5
CAS Number:	32718-18-6
Phrases:	R22, 31, 34, 50 S2,8,26,41
Symbol:	C, N
WEL:	WEL

3. Hazard Identification

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



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4. First Aid Measures

Inhalation:

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

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.

Note:

When seeking medical attention, always show the product label.

5. Fire Fighting Measures

Suitable extinguishing media:

Water deluge or CO₂.

Unsuitable extinguishing media:

Dry powder extinguishers or foams.

Special exposure hazards in fire:

Fire causes formation of toxic gases

Required special protective equipment for fire fighters:

Use of self-contained breathing apparatus to prevent contact with skin and eyes.



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6. Accidental Release Measures

Personal precautions:

Use appropriate personal protective equipment as detailed in section 8.

Environmental precautions:

Do not allow runoff to sewer. If material has entered surface drains, it may be necessary to inform local authorities.

Methods for cleaning:

Provide ventilation and confine spill. Collect and reclaim or dispose in vented, dry, clean containers as hazardous waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Sweep up all residues using designated cleaning equipment.

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 sunrays. Keep away from heat, sparks and open flames.



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8. Exposure Controls / Personal Protection

Suggested limits:

No exposure limits noted for ingredient(s). It is recommended that exposure limits for chlorine (8 hr TWA 0.5 ppm, 1.5 mgm³; 15 mins STEL 1 ppm, 2.9 mgm⁻³) be applied to minimise risks associated with this product.

General:

Use engineering controls to reduce air contamination to permissible exposure level. Alternatively where this cannot be achieved, handle in naturally well-ventilated area.

Respiratory protection:

Use respiratory protection for general dust inhalation protection.

Hand protection (type of gloves, etc):

Wear suitable chemical resistant gloves when handling this product.

Skin protection:

Wear suitable chemical resistant clothing to protect exposed skin.

Eye protection:

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 oC approx.
Solubility in water:	Slightly soluble in water
Specific gravity:	0.96 g/cm ³



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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)
Primary irritation:	Skin index	6.1	
Sensitisation:	Hydrolysis product DMH is non sensitising.		

This product is an eye and skin irritant.
This product is not listed as a carcinogen.

12. Ecological Information

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

Bioaccumulation:	Low bioaccumulation potential.
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Degradability:	Degrades by hydrolysis.
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13. Disposal Considerations

General/Cleaning:

Do not reuse empty containers. Triple rinse drums prior to recycling or disposal.
Residues must be treated as hazardous waste.

Disposal Methods:

Dispose of in accordance with Local Authority requirements.

14. Transport Information

UN No:	UN3085
Proper Shipping Name:	Oxidising Solid, Corrosive, N.O.S., (contains bromo-chloro-5, 5-dimethylhydantoin)
Class/Division:	5.1 + 8
Packing Group:	II
Hazard ID No:	58
EAC:	1W
IMDG Code: Marine Pollutant:	May be considered a marine pollutant



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15. Regulatory Information

Product Name: Hydrobrome Tablets
 Symbol: C, N
 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 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 immediately (show the label where possible).



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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.

Note:

This data sheet does not constitute a user's assessment of workplace risk as required by HSW act, COSHH, management of health and safety at work regulations, or other health and safety legislation.