



SAFETY DATA SHEET
Bromochloro 5, 5 Dimethylhydantoin

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	Bromochloro 5, 5 Dimethylhydantoin
SYNONYMS, TRADE NAMES	Halogene..., Halobrom..., BCDMH, 2, 4 Imidazolidinedione,
APPLICATION	Biocides for water treatment
SUPPLIER	Univar 46 Peckover Street BRADFORD West Yorkshire BD1 5BD +44 1274 377000 +44 1274 377001 sds@univareurope.com
Emergency Contact Number	+44 1274 377070
(Office Hours)	
SDS No.	H060

2 HAZARDS IDENTIFICATION

Harmful if swallowed. Causes burns. May cause sensitisation by skin contact. Very toxic to aquatic organisms.

Contact with acids liberates toxic gas.

CLASSIFICATION Xn;R22. C;R34. N;R50. R31, R43.

3 COMPOSITION/INFORMATION ON INGREDIENTS

EC No.	251-171-5
CAS-No.	32718-18-6

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Get medical attention.

INGESTION

Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Obtain medical attention and bring these instructions.

5 FIRE-FIGHTING MEASURES

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EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

UNUSUAL FIRE & EXPLOSION HAZARDS

May ignite other combustible materials. Dust may form explosive mixture with air. OXIDISING! Risk of explosion if heated. Fire causes formation of toxic gases.

SPECIFIC HAZARDS

Hydrogen bromide (HBr). Hydrogen chloride (HCl). Oxides of: Nitrogen.

PROTECTIVE MEASURES IN FIRE

Wear full protective clothing.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Remove sources of ignition. Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Eliminate all sources of ignition.

STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep in original container.

Oxidising material - Keep away from flammable and combustible materials.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

PVC gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear rubber apron. Wear rubber footwear.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Pellets Powder, dust

COLOUR White

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ODOUR	Mild		
SOLUBILITY	Slightly soluble in water. Hydrolysis in water		
MELTING POINT (°C)	156-162	VAPOUR PRESSURE	3.8 mPa 25°C
DECOMPOSITION TEMPERATURE (°C)	>160	SOLUBILITY VALUE (g/100g H₂O@20°C)	0.2

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition. Avoid contact with: Water, moisture.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong oxidising substances. Strong alkalis. Flammable/combustible material.

HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen bromide (HBr). Hydrogen chloride (HCl). Oxides of: Nitrogen.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 485 mg/kg (oral rat)

TOXIC CONC. - LC 50 1.1 mg/l/4h (inh-rat)

INHALATION

Irritating to respiratory system.

INGESTION

Swallowing concentrated chemical may cause severe internal injury.

SKIN CONTACT

May cause serious chemical burns of the skin.

EYE CONTACT

May cause severe irritation to eyes. Risk of serious damage to eyes.

12 ECOLOGICAL INFORMATION

LC 50, 96 Hrs, FISH mg/l 0.65

EC 50, 48 Hrs, DAPHNIA, mg/l 0.87

MOBILITY

The product has poor water-solubility.

WATER HAZARD CLASSIFICATION

WGK 2

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

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UK ROAD CLASS	5.1		
PROPER SHIPPING NAME	OXIDISING SOLID, CORROSIVE, N.O.S.(Bromochloro-5, 5-dimethylimidazolidine-2, 4-dione (BCDMH))		
UN NO. ROAD	3085	UK ROAD PACK GR.	III
ADR CLASS NO.	5.1	ADR CLASS	Class 5.1: Oxidising substances.
ADR PACK GROUP	III	HAZARD No. (ADR)	58
ADR LABEL NO.	5.1 & 8	HAZCHEM CODE	1W
CEFIC TEC(R) NO.	51GOC2-I+II+III	RID CLASS NO.	5.1
RID PACK GROUP	III	UN NO. SEA	3085
IMDG CLASS	5.1	IMDG PACK GR.	III
EMS	F-A, S-Q	MFAG	See Guide
UN NO. AIR	3085	AIR CLASS	5.1
AIR SUB CLASS	8	AIR PACK GR.	III

15 REGULATORY INFORMATION

LABELLING



Corrosive



Dangerous for the environment

RISK PHRASES

R22	Harmful if swallowed.
R31	Contact with acids liberates toxic gas.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.

SAFETY PHRASES

S2	Keep out of the reach of children
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of water.
S36/37/39	Wear suitable protective clothing, 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 label where possible).
S60	This material and its container must be disposed of as hazardous waste.

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S61

Avoid release to the environment. Refer to special instructions/safety data sheets.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION DATE 25.06.2009

REV. NO./REPL. SDS 03

GENERATED

SDS NO. H060

SAFETY DATA SHEET STATUS

Approved.

DATE 13.06.2008

SIGNATURE Jitendra Panchal

SIGNATURE 2 Gillian Sutton