

Dantoin® BCDMH

Broad-Spectrum Water Treatment

For Industrial Water and Commercial Pools



Product Description

Dantoin® BCDMH water treatment is a stabilized halogenated product allowing the controlled release of active bromine and chlorine when dissolved in water. It is a high purity, low odour product of exceptional strength and is an effective broad-spectrum bactericide and fungicide that is efficacious at low-level concentrations and within a wide pH range, provided the halogen demand is fulfilled.

Dantoin® BCDMH water treatment is less corrosive than chlorine and can be used as a single biocide or in combination with other oxidizing or non-oxidizing biocides. Dantoin® BCDMH water treatment products are simple to apply and monitor using either manual or automatized methods.

Available formats

- Tablets (20g) suitable for use in BCDMH industrial feeders.
- Granules with controlled particle size distribution.
- Powder (low dust) which provides downstream dissociation activity and faster dissolution in low temperature water.

Application

Area	Tablets	Granular	Powder
Industrial cooling water treatment	■	■	-
Air scrubbers	■	■	-
Evaporative condensers	■	■	-
Brewery pasteurisers	■	■	-
Air Conditioners	■	■	-
Slimeicide for pulp and paper production	■	■	■
Enhanced oil recovery	■	■	-
Swimming pool, spa and hot tub disinfection	■	■	-
Process water disinfection	■	■	■
Odour control	-	-	■

Active Content

Bromochloro-5,5-dimethylhyDantoin®

CAS No.:	32718-18-6
EINECS No.:	251-171-5
UN No.:	3085

Specifications

	Dantoin® BCDMH
Active Bromine	31.0–36.0 %
Active Chlorine	10.0–15.0 %
Volatiles	<0.5 % max.
Chloroform insolubles	<3.0 % max
MEH	<0,5% max
DMH	49.3–52.3%

Typical Solution Properties

Solubility in water (25°C)	0.25 g/100 g
Total insolubles, %	nil
Physical stability in water	stable
Odour in solution	slight chlorine

Packaging

Net weight/pack size available	Tablets	Granular	Powder
5 kg pail	■	-	-
20 kg drum	■	■	■
200 kg bag	-	■	■
800 kg bag	-	■	■

Typical Properties

Physical Properties

Colour	off white
Odour	Slight halogen
Volatiles	0.5 % max.
Decomposition temperature	180°C
pH (1% slurry)	3.6
Assay	96.0 % min.
Setting point	< 5°C
Foaming property	Non foaming
Shelf life	3 years*

Dantoin® BCDMH Tablets

Tablet weight	20g
Tablet density	1.87 g/cm ³
Nominal tablet dimensions	3.0 x 1.7 cm

Dantoin® BCDMH Granular

Granule diameter	3.0–8.0mm
Fines (< 200 micron)	1.0% max

Dantoin® BCDMH Powder

Particle size	200 micron max.
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Chemical Properties

Total available Halogen as Chlorine	56.4 % min.
Total available Chlorine	28.2 % min.
Total available Bromine	63.5 % min.

*Note: Dantoin® BCDMH water treatment can be stored in the sealed original packaging over a period of three years, provided Dantoin® BCDMH water treatment is kept out of the sun and heat and is stored in a cool, well ventilated place. Avoid contact with oxidising materials, lubricating oils, strong acids, strong alkalis, reducing agents, and hydrated salts, as hazardous substances (such as chlorine gas) may form.



Regulatory Information

Dantoin® BCDMH water treatment has worldwide regulatory approvals, and is furthermore being supported through the European Biocidal Product Regulation (BPR) Active Substance Review Program for the following product types:

- PT2 (Usage areas include among others: swimming pools, aquariums, bathing and other waters; air conditioning systems)
- PT11 (Preservatives for liquid-cooling and processing systems)
- PT12 (Slimicides)

Please note: not all applications have been registered for all products in every country. We therefore advise that customers should determine whether their product of interest has the necessary individual country permission(s) to place onto the market for their considered application. Lonza representatives can assist you with any enquiries.

Since approvals are regularly being gained, we are constantly updating our records. Full, up-to-date information is available on request.

Specific Registrations

- REACH: Pre-registered (Ref. number available on request)
- BPR: Supported by Lonza for PT 2, 11, 12
- BfR: 36th recommendation: slimicide for the production of paper and board for food contact
- NSF/ANSI: Drinking Water Treatment Chemicals
- EPA: Registration No. 6836-315
- FDA: Registration 21 CFR 176.300 as slimicide for the production of indirect food additives – paper and paperboard components

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Technical Service

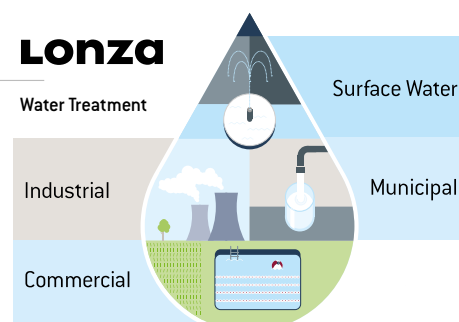
Lonza's technical laboratories can provide a range of testing as part of our customer support program. Please contact your local Lonza sales manager to take advantage of these customized services.

Risk Assessment and Safe Practices

Lonza professionals have a wide expertise in the field of Health, Safety and Environmental protection. Lonza is committed to providing this expertise to assist you in your choice of product and its suitability for specific applications. Your local Lonza sales manager remains at your disposal should you have any question in this area.

Health and Safety

Product Safety Data Sheets are supplied upon request. They should be read and understood by all supervisory personnel and employees before using the product. If there is any doubt please contact your local Lonza sales office for advice.



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