



HATENBOERWATER

Fresh in water since 1906.



HADEX[®]

Hadex[®]

Drinking water disinfectant.

Keeps your crew healthy.



Hadex®

The drinking water disinfectant for maritime and offshore.



Water, essential for all life

The importance of water to life is self-evident. However, water is also one of the major sources of infection, and the cause of many forms of illness. Bacteria, algae and other micro-organisms can grow extremely quickly in water and just like food, water deteriorates.

The safety of drinking water aboard ships and rigs cannot be taken for granted. Drinking water treated with Hadex® remains fit for consumption.

Safe drinking water

Hadex® keeps the drinking water in good condition. It is food grade and is approved as a continuous disinfectant in drinking water. Hadex® prevents water wastage and saves time, as against other disinfecting agents that are harmful, dangerous and/or difficult to dose. Because of the overall action of Hadex® in water it also disinfects the tanks, pipelines and all water fed equipment. It keeps your crew healthy.

Approvals

Hadex® has been tested and approved by a number of (maritime) authorities in the Netherlands and abroad, including:

- Dutch Ministry of Health (Ctgb registration No. 9574N)
- Dutch Directorate General for Shipping and Maritime Affairs, Shipping Inspection, Division NSI (NL)
- DOT (UK)
- NIPH approved (Norway)
- NMD (Norway)
- GL (Germany)
- NATO

Characteristics

Hadex® is not only a safe, effective and easily applied product, but compared with other products has even more advantages:

- it is easily stored
- it has a very long shelf life:
 - at least eighteen months under normal conditions ($t=25^{\circ}\text{C}$).
 - at least three years if stored cool ($t=\leq 6^{\circ}\text{C}$).

Other products have a shorter shelf life. For example, industrial sodium hypochlorite loses about 30% of its effectiveness after storage for 30 days at 30°C .

Drinking water treated with Hadex® is ready for consumption.





Approved | Safe | Easily applied | Cost-effective | Food grade

Dosing

Hadex® is ready for immediate use as delivered. Because it is a very pure, stable and safe product, it facilitates swift and accurate dosing. As it is a liquid product that mixes quickly and easily with water, it can be added simply to the water through the filling pipe or through the tank opening. Hadex® starts disinfecting immediately, and the water is ready for consumption after a short period of only 30 minutes when applying the normal dosing.



Test kits

Hatenboer-Water offers a wide range of test kits to measure the amount of active Hadex® in the water.

Of course, Hatenoer-Water can provide you with detailed information regarding dosing or you can download the application data sheet from www.hatenboer-water.com.

Automatic dosing units

A range of automatic Hadex® dosing units is available. The standard Hadex® dosing units are proportional controlled, by use of pulse generating flow meters. For larger flows, especially in bunker systems electromagnetic flow meters are also available. All dosing units can be supplied to meet your own specifications. A major advantage of the Hatenoer-Water dosing units is that the standard packing is designed to be as a dosing container. Therefore safer and easy to use.

Water Quality

Hatenboer-Water recommends that the water be tested periodically for bacteriological quality, certainly in the case of new installations or when repairs have been carried out. Hatenoer-Water can arrange worldwide sampling, analysis and reporting, which is carried out according to official standards. Contact the Water Quality Department for more details.

**FOOD
GRADE**

Standard dosages

There are three standard dosages for drinking water treatment in most situations. They all meet the standards laid down by international maritime authorities.

1 The normal dosage

1 litre Hadex® : 50,000 litres of drinking water
Intended for the treatment of water that is clear and of a normal quality.

2 Extra dosage

1 litre Hadex® : 25,000 litres of drinking water
Intended for the treatment of water that is of inferior or doubtful quality.

3 High dosage (shock treatment)

1 litre Hadex® : 5,000 litres of drinking water
Intended to be used under epidemic conditions and/or when it is suspected that the water might be infected. High dosage should also be applied as an initial treatment for the disinfection of tanks and pipelines after repairs or renewals.



Dosing unit



Highest standards

Hadex® treatment is based on the proven and tested use of free chlorine in the preparation and final treatment of drinking water. Hadex® treatment combines this traditional practice with a number of important advantages, meeting the highest standards set for a drinking water disinfectant.

What standards should one expect of an effective drinking water disinfectant?

- It should be food grade quality.
- It should swiftly destroy any harmful organisms, and should remain active for a sufficiently long period.
- It should have no adverse effects on water quality, and should not allow the water to become corrosive.
- It should be cost-effective per cubic metre of treated water.
- It should be simple to apply.
- It should be immediately and easily soluble in water.

Hadex® meets all these standards!

Hadex® is a registered trademark of Hatenboer-Water BV.



DISTRIBUTOR/AGENT:

HATENBOER-WATER ASIA PTE LTD

22 Boon Lay Way

#01-57 Tradehub 21

Singapore 609968

E info.asia@hatenboer-water.com

T +65 9720 4723

T +65 9712 4613

HATENBOER-WATER BV

Mercuriusweg 8, 3113 AR Schiedam

P.O. Box 6013, 3002 AA Rotterdam

The Netherlands

T +31 (0)10 409 12 00

I www.hatenboer-water.com

Fresh in water since 1906.

With specialist expertise, in-house engineering, design and production in a modern operating environment, Hatenboer-Water supplies sustainable solutions for all your water-related challenges and basic needs.

From the supply of a standard product such as a pump or filter, right up to fully integrated custom-made water treatment systems incorporating proven technologies and innovative developments. With all necessary worldwide after-sales service, consultancy and quality assurance.



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