

Wilhelmsen Chemicals AS
Kjærsti Ihlebrekke
Kirkeveien 578, Kjøpmannskjær
P.O.Box 15
3141 KJØPMANNSKJÆR

Your ref:
Our ref: 14/1799-6/MIVM/RAHE
Date: 26.09.2014

TOXICOLOGICAL EVALUATION/APPROVAL OF THE PRODUCT BIOGUARD PLUS FOR USE IN INSTALLATIONS PRODUCING POTABLE WATER

We refer to your e-mail dated 9 July 2014, concerning the evaluation/approval of the product Bioguard Plus for use as antifoulant in installations producing drinking water.

General information about toxicological evaluation/approval of products in contact with drinking water

The Norwegian Institute of Public Health, Division of Environmental Medicine, has the authority to approve products (coatings, additives, etc.) in contact with drinking water on installations/ships offshore (The Ministry of Labour and Government Administration; Regulations of 31st of August 2001, and The Ministry of Trade and Industry; Regulations of 4th of September 1987). Chemical products to be used in desalination units must also be approved. Such chemical products include also chemicals for use as scale inhibitors, corrosion inhibitors etc., chemicals used for cleaning evaporators and cooling and heating system additives where the system water is used in evaporators for drinking water production.

According to The Ministry of Health and Care Services; Regulations of 1st of January 2002, concerning drinking water supply and drinking water onshore, approvals of additives for use in contact with drinking water are required. Such additives are regulated by the Food Act, which is administered by the Norwegian Food Control Authority or by the local Norwegian health and food control authorities. The Norwegian Institute of Public Health, Division of Environmental Medicine, performs toxicological evaluations of such additives for the Norwegian Food Control Authority, as well as of materials which may come in contact with drinking water onshore. The Norwegian Institute of Public Health does not approve products for use in contact with drinking water onshore.

It is the responsibility of the manufacturer that the product specification is in all respect the same as that evaluated by the Norwegian Institute of Public Health, and that the product does not pose any harmful or toxic effects in the potable water.

Toxicological evaluation/approval of Bioguard Plus for use in installations producing drinking water

The Norwegian Institute of Public Health has evaluated Bioguard Plus based on the product information provided by Wilhelmsen Chemicals AS and **finds the product accepted/approved** used as antifoulant in installations producing drinking water.

Premises for this evaluation/approval are that:

- **The specifications for good manufacturing practice are followed**
- **the producer's instructions for dosage and use are followed**
- **the product does not affect the quality of the drinking water**

This evaluation/approval is based on the product information given in the application and today's knowledge. If essential changes are made in the formulation, this evaluation/approval will be annulled automatically and a new application is necessary. Also, if the basis for our evaluation/approval of health effects is changed, the evaluation/approval will be revoked.

This evaluation/approval is no guarantee for the quality of the product and it should not be used in advertisements in a way that gives such an impression (Norwegian Marketing Regulation, Law 2009-01-2, §7 and 26).

A complaint about this decision should be addressed to the Ministry of Health and Care Services. Any complaint shall be given grounds for and sent via the Norwegian Institute of Public Health within three weeks.

Charge of payment will be claimed according to Norwegian Occupational Environmental Laws §18 for products used on ships and offshore. Charge of payment will be claimed according to The Ministry of Health and Care Services for products used onshore.

Yours sincerely,



Hubert Dirven
Department Director



Ragna Bogen Hetland
Senior Scientist