BetzDearborn* DCL32

FACT SHEET

Dechlorinating agent for food-grade & potable membrane applications

Description And Features

BetzDearborn DCL32 is a very cost-effective product used to remove free and combined chlorine from reverse osmosis and ultrafiltration feed waters. This liquid product is a high-quality solution of sodium bisulfite ($NaHSO_3$).

Feed waters to membrane systems often contain chlorine to treat and prevent microbiological growth prior to the membrane separation process. This chlorine, however, can irreversibly damage thin film composite membranes by oxidizing the membrane surface. The sodium bisulfite in BetzDearborn DCL32 quickly deactivates chlorine and protects membranes from damage.

BetzDearborn DCL32 is certified by NSF International to NSF/ANSI Standard 60, and the ingredients are generally recognized as safe by the FDA for use in either human or animal food.

Chemistry of Dechlorination

Deactivation of chlorine by sodium bisulfite:

NaHSO3	+	HOCl	→	NaHSO4	+	HCl
sodium bisulfite		*hypochlorous acid*		*sodium bisulfate*		*hydrochloric acid*

Application

4.44 ppm of BetzDearborn DCL32 are required to remove 1 ppm of chlorine, measured as total chlorine.

BetzDearborn DCL32 is a food-grade solution with NSF approval. It has potable approval for dechlorination with a maximum use level of 15 ppm (mg/L).

BetzDearborn DCL32 application dosages should be limited by the chlorine demand. It has been observed that an excess of sodium bisulfite in the RO feed water may increase the incidence of microbiological growth in membrane systems.

Your Veolia representative can assist you with identifying chlorine levels in your process and in defining the dosage requirements for BetzDearborn DCL32.

Stability

Please refer to the Safety Data Sheet for stability information. The product may be slowly degraded by oxygen after the package is opened; the rate of degradation increases with higher temperatures. When using in an open day tank, do not use agitation and monitor the active concentration on a weekly basis. The product stability will decrease if diluted; consult with your Veolia representative to determine the optimum dilution concentration and solution stability for your application.

Packaging Information

BetzDearborn DCL32 is a liquid material available in a variety of containers and delivery methods. Contact your Veolia representative for details.

Safety Precautions

A Safety Data Sheet containing detailed information about this product is available upon request.

Corrosion-resistant materials should be used for the storage and handling of this product. Discuss recommended materials of construction with you Veolia representative.

*Trademark of Veolia; may be registered in one or more countries. ©2022 Veolia. All rights reserved. pfg366.docx Feb-16

LENNTECH
Water Treatment Solutions
info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289