

## V-GUARD™ 230

### Alkalinity Builder

#### Product Description

V-GUARD 230 alkalinity builder is a solution of pure alkali specifically formulated to prevent product freezing under most conditions. It is used to raise the pH of feedwater and maintain the alkalinity of boiler water. Feedwater pH adjustment is needed to control corrosion. Adequate boiler water alkalinity is required to maintain silica soluble and cause precipitation of calcium and magnesium hardness as the desired sludges and to prevent corrosion.

#### Product Application

V-GUARD 230 should be continuously metered as a solution to the pre-boiler section or directly to the boiler. This product may be mixed with other compatible boiler water treatment chemicals.

#### Testing and Control

The dosage of V-GUARD 230 is typically adjusted to maintain the correct pH (10 – 12) and hydrate alkalinity (300 – 600 ppm) in the boiler water. Hydrate alkalinity can be tested using the barium chloride method.

Your Visentia Water Treatment Consultant will recommend the correct dosage after thoroughly evaluating all system parameters.

#### Physical Properties

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Form:</b>                    | Liquid                    |
| <b>Odour:</b>                   | NA                        |
| <b>Colour:</b>                  | Colourless, slightly hazy |
| <b>pH (25°C):</b>               | >14                       |
| <b>Melting/Freezing Point:</b>  | NA                        |
| <b>Boiling Point:</b>           | >100°C                    |
| <b>Solubility (water, 25°C)</b> | Miscible                  |
| <b>Flammability:</b>            | Non-flammable             |
| <b>Relative Density:</b>        | 1.51-1.53                 |
| <b>Viscosity:</b>               | NA                        |

#### Regulatory & Handling

**MPI Dairy:** V-GUARD 230 is recognised by the Ministry of Primary Industries New Zealand as a Dairy Maintenance Compound; approved for treatment of steam boilers producing culinary steam in dairy factories when used in accordance with recommended operating conditions/guidelines.

**MPI Non-Dairy:** V-GUARD 230 is approved by the Ministry of Primary Industries New Zealand as a Non-Dairy Maintenance Compound for treatment of boilers and steam lines in food and beverage processing plants where the steam produced may come into contact with food products and process equipment (C 63).

Refer to the SDS or contact your Visentia water treatment consultant for any additional regulatory and environmental information.

**Safety:** Visentia maintains an SDS for all its products. Use the health and safety information contained in the SDS to develop appropriate product handling procedures to protect your employees and customers. Our SDS should be read and understood by all of your supervisory personnel and employees before using Visentia products in your facilities.

#### Packaging

V-GUARD 230 is available in 20L pail, 200L drum and 1,000L IBC packaging options.

#### Further Information

If you require any further details on Visentia's products or services, please call your local Visentia water treatment consultant or directly to our Auckland head office on +64 9 216 9824.