Detrex®
CHEMICALS DIVISION

February 17, 2026

Subject: Homogeneity

To whom it may concern,

Detrex Hydrochloric acid (HCl) produced at their Ashtabula facility is synthesized through a direct synthesis method, which involves the reaction between hydrogen gas (H2) and chlorine gas (Cl2). Liquid Hydrogen is vaporized into a gas and simultaneously fed into graphite reaction vessel with Chlorine gas. The two gases react, producing a high concentration gaseous mixture of hydrogen chloride. This mixture is dissolved into high purity water to produce hydrochloric acid.

The generated hydrochloric acid solution is held in a storage tank which is continuously circulated. Hydrochloric acid is an aqueous solution and does not separate, stratify, or become otherwise non-homogenous once mixed.

In addition, at a minimum the first and last filled container per lot is QC tested.

Sincerely,

Dave Morgan

Dave Morgan
Global Product Manager, Hydrochloric Acid
Detrex Chemicals

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