



March 1, 2023

Subject: Detrex Chemicals Statement on Stability Testing and Expiration/Retest Dating.

To whom it may concern,

Detrex Chemicals does not assign an expiration date to our HCl products. The date assigned by Detrex is a re-test date. Once our finished packaged product has reached that date it should be tested by a competent lab capable of testing HCl products to verify the product remains suitable for use.

Hydrochloric Acid is a very stable compound. It remains stable across a wide range of storage and transportation conditions. Due to HCl's high stability Detrex has traditionally relied on historical data to establish re-test dating requirements. This has been a reliable method for our products, as unlike many HCL products Detrex Chemicals HCL is directly synthesized from highly purified Chlorine, Liquefied Hydrogen, and ultra-pure water. Our HCl is not a byproduct of another chemical manufacturing process, which can contain other trace impurities. Detrex Chemicals maintains retain samples of our product, and internal testing performed using our ICP MS analytical system, to date, consistently confirms our product remains stable.

As an element of our continuous improvement processes Detrex has retained a consultant and is in the initial phases of a project to strengthen our processes for establishing HCl product re-test dating. We will be conducting formal stability studies, which will be performed by a 3<sup>rd</sup> party laboratory under Detrex supervision. We will be conducting accelerated and extended testing on our HCl products.

Copies of our procedure and stability testing protocols can be made available for review.

Sincerely,

A handwritten signature in black ink that reads "Dave Morgan". The signature is written in a cursive style with a large, looped "D" and "M".

Dave Morgan  
Global Product Manager, Hydrochloric Acid  
Detrex Chemicals