

## Nutrient Management and Nutrient Recovery Thematic Network www.nutriman.net

## **EIP-AGRI** practice abstract

## Short title:

Liquid ammonium sulphate or ammonium nitrate from digestate or slurries stripped and scrubbed with H2SO4 or HNO3 by "Circular Values" process

## **Summary:**

Increased temperature and pH combined with acidic washing in stripping and scrubbing process allows for nearly all (85%) of the mineral nitrogen coming out from the slurry into a liquid mineral fertiliser as ammonium sulphate or ammonium nitrate liquid. This is a pure, high quality fertiliser without organic matter-content, prone to precision fertilising. The ammonium nitrate and ammonium sulphate produced through the Circular Values-technology are high quality fertilizers with 100% nutrient replacement value (NRV) - so no artificial fertilizer is needed.

The ammonium sulphate (>7% N) and ammonium nitrate (up to 18% N) are high quality fertilisers which can completely offset the need for another/artificial fertiliser. Ammonium sulphate and ammonium nitrate are good fertilizers particularly apt for alkaline soils. In the soil the ammonium ion is released and forms a small amount of acid, lowering the pH balance of the soil, while contributing essential nitrogen for plant growth. Ammonium nitrate is an important fertilizer because it contains both cation (NH4+) and anion (NO3) nitrogen. The amounts of the product to be applied and application technology depend on product characteristics, the crop needs (N and S) season and soil characteristics.

For more information: <a href="https://nutriman.net/farmer-platform/product/id\_266">https://nutriman.net/farmer-platform/product/id\_266</a>

