

## Choosing Better: How Scott Bader replaced cleaning solvents to reduce waste products

By switching from acetone to Ambimization® Wash Fluid, Scott Bader reduced VOCs, emissions and waste volumes.

### What is Ambimization®?

Ambimization® Wash Fluid (AWF) is a water-based cleaning solution that is non-flammable, non-toxic and has x15 the usability of solvents, meaning less fluid is required and it lasts longer. AWF also works at room temperature, reducing risk and energy consumption.

Whilst solvents corrode coatings and resins in the cleaning process, Ambimization® instead changes the surface tension of the product, delaminating it from the vessel, and allowing waste products to separate out, either rising to the surface or dropping to the bottom.

**Ambimization® Wash Fluid reduces VOCs, waste products and carbon emissions, offering a sustainable and safe solution, for people and planet.**

### Who is Scott Bader?

Scott Bader is an employee-owned global manufacturer of adhesives, composites and functional polymers. They have ambitious sustainability goals, intending to become a fully sustainable company by 2036. In creating adhesives, composites and polymers, cleaning often creates a problem, as corrosive chemicals are required to fully clean plant machinery to a high standard.

In 2023, Scott Bader started a project to look for alternative cleaning solutions, as part of their 2036 vision to reduce their impact on the environment.

Ricky Greenwood, Group Environment and Sustainability Specialist for Scott Bader said that when it came to solutions, **“Terrafend stood out with an innovative product - Ambimization Wash Fluid.”**

**The implementation process of Ambimization® at Scott Bader was as follows:**

#### Testing

- Tested AWF to ensure it worked in their plants
- Site visit with team set up

#### Implementation

- AWF added to moveable vessels, with cleaning heads lowered and turned on for 30 minutes.

#### Expansion

- Extended use of Ambimization by using Terrafend Shockwave and Typhoon machines as well as in movable vessels.

## The Solution

Scott Bader implemented both **Shockwave** and **Typhoon** machines with AWF fluid at their UK Site. These machines are used to clean their dispersers, small parts and small bowls. The Shockwave is a submersion tank that uses ultrasonic cavitation to clean parts on a short cycle and the Typhoon has a flowthrough brush for manual cleaning.



## The Results



### Waste Product Reduction

Whilst Scott Bader's original implementation was motivated by reducing emissions, the results when it came to waste reduction have been impressive. In **reducing waste products by 75%** they have had a huge impact on their sustainability goals, as well as the cost and processing of waste removal.



### VOC Reduction

The implementation and results from the change to Ambimization won the Scott Bader team the **2023 Chemicals Northwest Award for Sustainability and Health and Safety**. These awards recognise outstanding contributions to sustainability and health and safety, leading to positive impacts across the company, and we're very proud we were able to help Scott Bader create an impact.



### CO<sub>2</sub> Reduction

In moving from harmful cleaning solvents to a cleantech water-based solution like Ambimization®, Scott Bader chose a better option. Better for their team, their industry and their planet.

**“Reduced waste, less emissions, all while keeping the same high standard of cleaning we had previously.”**

## Who is Terrafend?

Terrafend is a cleantech company dedicated to unlocking the potential of a circular economy with sustainable solutions that manufacturers – and the planet – can rely on.

We reinvent cleaning processes, enabling businesses to reduce risk, waste and their carbon footprints.

Our patented cleaning methodology, Ambimization®, combines chemical and mechanical engineering to provide revolutionary, clean technology that removes hydrocarbon solvents, caustic solutions and heated chemicals from manufacturing processes. With Ambimization®, businesses can reduce their waste outputs by up to 98%, decrease VOCs by up to 93.5%, and eliminate solvents entirely.