

Newsletter SPECIAL FORMALDEHYDE AND BACT-AID™

A special edition on decontamination. Everyone is aware of the situation surrounding formaldehyde. Denied authorisation as a feed additive, but permitted for use to stabilise raw materials. This newsletter explains more about the E.F.S. topics relating to this situation. What do you think; Emotion rules over Science?

The end of an era for formaldehyde

As the **end of an era for formaldehyde** becomes imminent, the need to find a good alternative to formaldehyde to control undesirable pathogens in raw materials and feeds, has become even more pressing. E.F.S. has more than 20 years of experience in treating feeds and raw materials to protect against undesirable pathogens. E.F.S. offers you an alternative that virtually replicates the effectiveness of formaldehyde. Several years of intensive research have resulted in the development of the Bact-Aid™ concept. The composition of Bact-Aid™ includes formic acid, propionic acid and active aromatic components. This balanced and clever combination **greatly reduces** the number of bacteria and offers raw materials/feeds long-term protection. E.F.S. has developed a dedicated dosing device for the Bact-Aid™ concept. To obtain optimal results, this is supplied and installed in consultation with you. We can also **train and support your employees** to work safely and efficiently with Bact-Aid™.

Practical experiences

Bact-Aid™ is already widely and successfully applied in practical situations. The concept can be used with ingredients including met&bone meal, feeds and specific by-products. Bact-Aid™ can be used in **conventional and organic** applications. Repeat studies and monitoring the use of Bact-Aid™ in practice have demonstrated that it is an innovative and effective alternative for formaldehyde!

"Decontamination does not just entail the addition of a product such as Bact-Aid™. It is vital to determine the correct dose and correct dosing point and the method that suits the customer. The correct concept is therefore always developed in consultation with the user."

Time line: Formaldehyde

After the repeal of the biocide directive PT20 on 1 July 2015, the EU has reached a decision on the use of formaldehyde for bacteriological control. This subject has featured on the EU agenda several times. On 20 December 2017 a vote took place on the EU proposal to deny continued authorisation of the use of formaldehyde.

Despite positive advice being given by the EFSA twice regarding the use of formaldehyde as an additive to control bacteria, and Salmonella in particular, the EU commission decided to deny authorisation to use formaldehyde as an additive in the animal feed industry. A quote from the Official Journal of the European Union (7 February 2018) appears below:

"Emotion rules over Science"

"Article 1 Official Journal of the European Union

COMMISSION IMPLEMENTING REGULATION (EU) 2018/183 OF 7 February 2018

Denial of authorisation

The authorisation of formaldehyde as an additive in animal nutrition, belonging to the additive category 'technological additives' and to the functional groups 'preservatives' and 'hygiene condition enhancers', is denied. "

“A concept that suits your company”

Customised decontamination

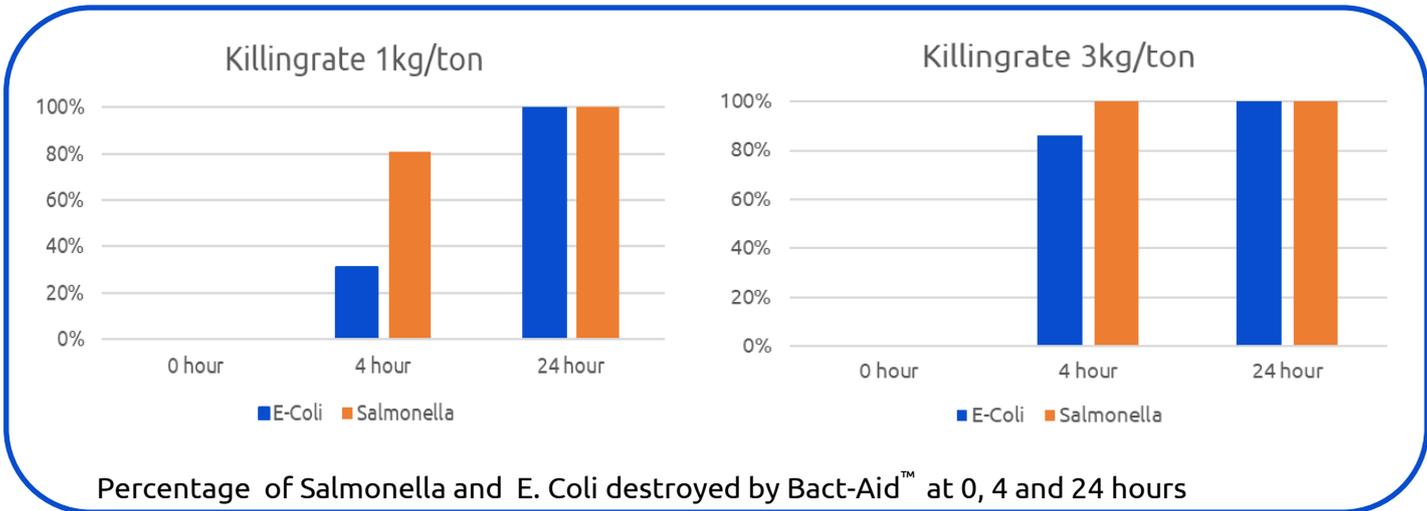
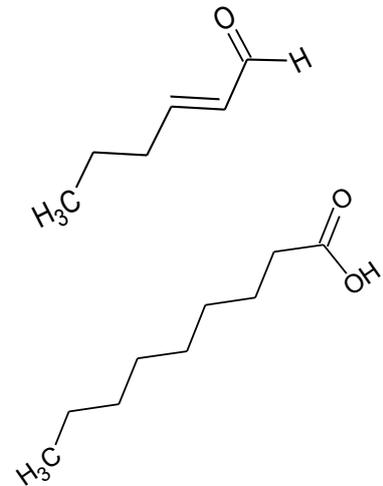
E.F.S. is a flexible organisation with the ability to decontaminate raw materials and feeds at a wide range of sites. This is achieved using integrated/fixed installations or our mobile installation for use at the desired location. [Contact](#) us for more details!

Background, Research & Practice

Bact-Aid™ has been developed to eradicate pathogens from feed and raw materials. This inventive blend, containing ingredients including **aromatic components** penetrates the cell walls of bacteria and renders the bacteria harmless.

In vitro studies have determined the effectiveness of Bact-Aid™ on a range of bacteria, including **Salmonella typhimurium** and **Escherichia coli** (E.Coli). The tests were performed with a bacteria concentration of 10⁵ CFU. Bact-Aid™ was added in doses of 0.1% and 0.3% (1 kg and 3 kg per ton). A baseline CFU determination were performed at 0 hours (before being added), and 4 hours and 24 hour after Bact-Aid™ was added.

The graphs below show the results. Both dose rates of Bact-Aid™ were capable of fully destroying these bacteria **within 24 hours**.



Bact-Aid™

innovation in decontamination!