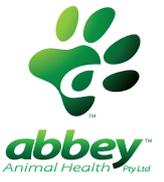


ForFeed™ PRESERVE



ACTIVE CONSTITUENTS: Salts of propionic acid, formic acid and benzoic acid

Safe Feed. Save Money.

What is ForFeed™ PRESERVE?

ForFeed™ PRESERVE is a fungi, yeast and bacteria inhibitor that can be added to premixes, concentrates and feedstuffs. It is a synergistic mixture of organic acids with great specificity and power in their functionality. ForFeed™ PRESERVE is non-corrosive and mixes easily into feed.

Why use ForFeed™ PRESERVE?

Contaminated feedstuffs or recontamination during storage, transport and outfeed result in significant losses in productivity, if not severe outbreaks of disease, as a result of microbial and fungal growth. Furthermore bacterial-, mould- and yeast growth also reduce the nutritive value of feed.

Numerous trials have shown that the combination of the correct organic acids or their salts, with proven effects against fungi, yeast and bacteria - like propionic, formic acid and benzoic acid - leads to hygienic feed, which prevents losses during storage.

What are the benefits of ForFeed™ PRESERVE?



Prevents and stops the spread of moulds and yeasts in the feed



Targets harmful bacteria such as Salmonella and E. coli



Stabilises feed quality and reduces buffer capacity

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Table 1. Effect of propionic acid against fungi

FUNGI	MIC (%)
<i>Rhizopus nigricans</i>	0.100
<i>Aspergillus niger</i>	0.250
<i>Aspergillus flavus</i>	0.250
<i>Chaetomium globosum</i>	0.125
<i>Penicillium expansum</i>	0.125
<i>Penicillium notatum</i>	0.200
<i>Cladosporium sp.</i>	0.250
<i>Fusarium nivale</i>	0.125
<i>Fusarium oxysporium</i>	0.125
<i>Helminthosporium sativum</i>	0.100

Table 2. Effect of formic acid against bacteria

BACTERIA	MIC (%)
<i>Salmonella typhimurium</i>	0.10
<i>Escherichia coli</i>	0.15
<i>Listeria monocytogenes</i>	0.10
<i>Campylobacter jejuni</i>	0.10
<i>Clostridium botulinum</i>	0.15
<i>Clostridium perfringens</i>	0.10
<i>Pseudomonas aeruginosa</i>	0.10
<i>Staphylococcus aureus</i>	0.15
<i>Salmonella typhimurium</i>	0.10
<i>Escherichia coli</i>	0.15

Table 3. Effect of benzoic acid against various micro-organisms

	Bacteria	Yeasts	Moulds
Benzoic Acid	++	+++	+++

Source: Lück and Jager (1995), * ++ moderately effective, +++ highly effective

DIRECTIONS FOR USE

Preservation of compound feeds: 0.5 – 5.0 kg per tonne.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre 131 126. Avoid contact with eyes, skin and clothing.

Additional Information is listed in Safety Data Sheet.

DISPOSAL

Shake and empty contents into feed. Do not dispose of undiluted chemicals on site. Break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

STORAGE

Store in a cool, dark and dry place. If not in use, keep packages closed.

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