

## Product Information and Specification

### GutPlus®

#### DESCRIPTION

GutPlus® is a direct-fed microbial product supporting the intestinal microbial balance in all animal species. It is compatible with most commercial coccidiostats, antibiotic growth promoters, and organic acids.

#### INGREDIENTS

Calcium carbonate, *Bacillus subtilis* DSM 32540.

#### PROCESSING

GutPlus® can be used in feed and feed mixtures for all animal species. It can be pelletized up to 85°C for 1 minute

#### DIRECTIONS FOR USE

Add min. 500 g per metric ton of feed.

Add min. 1 lb per short ton of feed.

Contact a representative from Evonik Corporation for specific application advice.

#### STORAGE

Should be stored in a cool, dry place away from direct sunlight in originally sealed packaging.

#### STABILITY

Stable for 2 years under the recommended storage conditions.

#### PACKAGING

This product is available in 25 kg bags.

#### SAFETY AND ENVIRONMENT

US - According to the OSHA Hazard Communication Standard 29 CFR 1910.1200, GutPlus® is non-toxic. Not a hazardous material according to the US DOT 49 CFR Hazardous Materials Regulations (HMR).

Canada - According to the WHMIS Controlled Product Regulations in Canada, GutPlus® is non-toxic. Not a hazardous material according to the Transport Canada Transportation of Dangerous Goods Regulations (TDG).

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## PRODUCT SPECIFICATION

## IDENTIFICATION SPORE COUNT GUARANTEE

<i>Bacillus subtilis</i> DSM 32540	min. $2 \times 10^9$ CFU/g
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## PRODUCT CHARACTERISTICS

## MICROBIOLOGICAL

<i>Salmonella</i> spp.	Not detectable in 25 g
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<i>Coliforms</i>	$< 10^2$ / g
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Yeast and moulds	$< 10^3$ / g
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## CHEMICAL

Cadmium	$< 0.5$ mg / kg
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Mercury	$\leq 0.1$ mg / kg
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Dioxin: (WHO-PXDD / F-TEQ)	$\leq 0.5$ ng / kg
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## PHYSICAL

Solubility at 25 °C	Not soluble in water
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Appearance	Dry, free flowing granules
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Color	White to gray brown
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Particle size	$< 500$ µm
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Bulk density	Typically 1500 kg/m <sup>3</sup>
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**Evonik Corporation**  
Nutrition & Care  
Animal Nutrition Business Line

[animal-nutrition@evonik.com](mailto:animal-nutrition@evonik.com)  
[www.evonik.com/animal-nutrition](http://www.evonik.com/animal-nutrition)