# d<sub>z</sub>p natural

Plant-based anti-bacterial masterbatch system. Suitable for use in food and non-food applications.

The United Kingdom's Chief Medical Officer has warned that there is a "catastrophic threat" of resistance to antibiotics.\*

Made with essential plant oils. For use with a wide variety of plastic materials.

\*FT, 11th March 2013



**NEW** plant-based technology

Exempt from US – EPA Registration as a pesticide: (Section 25.b of FIFRA) Exempt from EU – BPR 528/2012 (simplified "Product Authorization" valid in all EU Member States);

Food Contact Compliance: ingredients listed in GRAS (FDA – USA) and POSITIVE LIST (EU Regulation 10/2011)



## d<sub>2</sub>p natural anti-bacterial masterbatch



A natural, plant-based anti-microbial system. It effectively eliminates harmful bacteria. Safe for use in most applications.

Characteristics	d <sub>2</sub> p Natural anti-bacterial
MB composition	Essential plant oil natural products, finely dispersed into a polymeric matrix
Colour	White; but it can be pigmented based on customer's requirements
Scent	Odour: mild essential oil
Performance. Tested against	Antimicrobial: Broad Spectrum antibacterial agent to both Gram (+) and Gram (-) bacteria, as per JIS Z 2801: 2000 and stable as per ISO 22196
Applications	PE, PP, PS, TPE, EVA, HIPS, GPPS, PVC, ABS, SAN and PA
Addition Rate	1 – 2% by weight
Processing Temperature	Max. 260°C
Food Contact	In compliance by FDA (Food and Drug Administration) USA and EFSA (European Food Safety Authority)

#### Benefits:

- Fights healthcare and food industry infections
- Uses proprietary blend of natural plant-based products as active ingredient
- Additive colour stabilized to avoid discoloration
- Active ingredient does not require registration with the EU Biocidal Regulator, nor EPA in USA
- Carrier system releases pleasant fragrance, leaving a "spa" scent. If an application requires no fragrance, the formulation can be modified accordingly.
- Addition rate 1-2%
- Enhances your marketing message. Protects your customers.
- Full support from Symphony's technical and marketing teams

The information provided is general information. For specific applications please consult Symphony's Technical Department.

### Want to find out more...

www.d2p.net

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