Gaia® Antimicrobial AB 505
An antimicrobial for polyethylene in injection, extrusion and film applications.

Gaia® Antimicrobial AB 505 is an organic concentrate that helps to control or retard the growth of bacteria, fungus, and algae in plastic molded parts. Gaia® Antimicrobial AB 505 is a powerful additive concentrate produced in an LLDPE carrier resin for ease of dispersion. This product has been used in film, injection molding, and extrusion applications to control growth of bacteria, yeast, mold, and algae. In independent testing, Gaia® Antimicrobial AB 505 has been shown to inhibit e-coli and staphylococcus. A loading of 1.5% - 3% will protect plastic articles for an estimated 1 – 2 years. Recommended temperature range should not reach above 428°F.

Applications: Blown film, Extrusion, Injection Molding
Melt Flow: 20 (grams/10 min.), at 190°C
Blend Density: 0.926 g/cm3 (36 lb. /ft³)
Types of Resins: Polyethylene, Polypropylene
Amount Required: 1.5% - 3%

Features and Benefits:
• Organic alternative
• Replaces more hazardous chemicals currently being used
• Non-pesticide and non-toxic alternative

Components of Gaia® Antimicrobial AB 505 are compliant with EPA and/or FDA regulations for food contact applications and RoHS compliant. Gaia® Antimicrobial AB 505 is packaged in foil lined 20 kg boxes and foil lined 200 lb. drums. We recommend that this product be kept closed and kept in its original container, away from sunlight, heat, and highly humid environments. Gaia® Antimicrobial AB 505, once blended, should be processed and can be stored for future use. Opened packages should be sealed or closed tightly to limit oxygen permeation and oxidation of additives. Product should be used within 6 months of production date. Long term storage not recommended.

Disclaimer - This data contains general information and describes typical properties only. Only persons qualified to determine for themselves the suitability of our products for particular purposes should evaluate its potential uses. No guarantee is made or liability assumed, the application of this data and the products describes herein being at the sole risk of the user. Samples are provided to the requestor on an “AS IS, WHERE IS” evaluation purpose only basis, solely under the use and direction of the requestor, without warranty of any kind (either express or implied), including but not limited to any implied warranties of merchantability and fitness for a specific or general purpose and those arising by statute or by law, or from a cause of dealing or usage of trade. In no event, regardless of cause, shall Phoenix Plastics be liable for any indirect, special, incidental, punitive or consequential damages of any kind, whether arising under breach of contract, tort (including negligence), strict liability or otherwise, and whether based on this agreement or otherwise, even if advised of the possibility of such damages.

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