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GREEN ALGAE GROWTH ON POLYMER EMULSIONS?

The phenomena of green algae growth, possibly caused by *Eustigmatophytes*, is frequently found in PVA and VAE polymer emulsions. Conventional biocides are found to be ineffective against this green algae.

LANXESS offers products to inhibit the growth of microorganisms, especially the growth of microorganisms usually associated with green algae. The incorporation of tailor made isothiazolinones formulation in Preventol® D 75 is proven to be effective in eliminating the growth of green algae in these polymer emulsions.



Figure 1:

Picture on the left shows an untreated polymer emulsion being infected by green algae. Picture on the right shows the polymer emulsion preserved by Preventol® D 75 and after being challenged with inoculums, did not find growth of green algae even after 3 months.

ADVANTAGES OF USING PREVENTOL® D 75

- Tailor made isothiazolinone formulation
- Broad-spectrum, effective in eliminating green algae which is usually found in PVA and VAE polymer emulsions
- pH < 9
- High water solubility
- Dosage range: 0.15 – 0.3%
- Good toxicity profile at use levels
- No adverse odor or color
- Low cost



Preventol® D 75 is easy to handle, water-soluble ways to preserve your product formulations.

Table 1: Conditions of VAE polymer emulsion after being inoculated with green algae, growth condition

| Treatment | Initial | 3 months after inoculation |
|--|-----------|--------------------------------|
| Untreated | No growth | Heavy growth |
| Algaecide dispersion, 300 – 2000 ppm active content | No growth | Heavy growth (within 2 months) |
| Isothiazolinones, 300 – 1000 ppm active content | No growth | Heavy growth (within 2 months) |
| Other preservatives | No growth | Heavy growth |
| Preventol D 75, 0.15% | No growth | No growth |
| Preventol D 75, 0.2% | No growth | No growth |

Contact

Asian Headquarters

LANXESS Pte Ltd
Business Unit: MPP, APAC Region
16, Joo Koon Crescent
Singapore 629018
Phone: +65 6725 5875
E-Mail: MPP-eBusiness@LANXESS.com
Website: <https://microbialcontrol.lanxess.com>

Please contact us for additional information: visit <https://microbialcontrol.lanxess.com>

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Use biocides safely. Always read the label and product information before use.

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