

Highlights

1. The responsible microorganisms for glue Blackening were isolated
2. Two strains were assigned as *Microbacterium oxydans* sp and *Alcaligenes faecalis* sp
3. It is the first report of vinyl glue alteration caused by *Microbacterium oxydans*
4. Triaryl butenes have an interesting conservative potential compared to a commercial biocide
5. The biocide has to be water soluble in order to preserve more adequately the microbiological stability of the glue.