

47.- EcoClearProx®, innovative H<sub>2</sub>O<sub>2</sub> solution

<b>Title and name of product or technology</b>
EcoClearProx®, innovative stabilised H <sub>2</sub> O <sub>2</sub> solution
<b>Abstract</b>
EcoClearProx® is an innovative stabilised hydrogen peroxide solution which was developed by ABT Belgium for use in different sectors where efficacy, quality and safety are primordial. The stabilisation of the product differs substantially from concurring H <sub>2</sub> O <sub>2</sub> -based solutions.
<b>Description including main features/advantages</b>
<p>EcoClearProx® is a worldwide patented, innovative stabilised hydrogen peroxide solution of foodgrade quality. The stabilisation of the product requires minimally a sugar alcohol. The product is especially useful for many applications where disinfection by-products are of concern and where classical H<sub>2</sub>O<sub>2</sub>-stabilisers (e.g. silver nitrate) or active substances different from H<sub>2</sub>O<sub>2</sub> (e.g. peracetic acid) are not wanted or accepted.</p> <p>The advantages of EcoClearProx® summarised:</p> <ul style="list-style-type: none"> <li>• Is of foodgrade quality and has a high stability especially when compared with chlorine.</li> <li>• Is authorised for various applications in Belgium, while authorisation procedures in several other countries are in a final stage or ongoing.</li> <li>• Has a broad spectrum of activity (oxidation, disinfection, etc.) and is at least equal or more effective as chlorine.</li> <li>• Is less corrosive than chlorine after dissolving in water and can be used in combination with many materials without adverse effects.</li> <li>• Does not generate dangerous compounds during reaction with organic materials or acids.</li> <li>• Generates H<sub>2</sub>O during its oxidising activity. No harmful substances remain after disinfection.</li> <li>• Has less environmental impact than for example chlorine-based biocidal products.</li> <li>• Is odourless before, during and after its application, and by this differs substantially from many other disinfection products.</li> </ul>
<b>Innovative aspects</b>
<ul style="list-style-type: none"> <li>• High stability</li> <li>• Broadspectrum activity</li> <li>• 100% foodgrade quality</li> <li>• No generation of disinfection by-products</li> <li>• Useful for a non-limitative list of various applications, including (drinking) water treatment next to many other applications</li> </ul>
<b>Current and potential industrial users/domains of application</b>
<p>In the field of water treatment EcoClearProx® can be used as oxidant and disinfectant in:</p> <ul style="list-style-type: none"> <li>- drinking water production</li> <li>- process water treatment</li> <li>- irrigation water (agriculture/horticulture)</li> <li>- waste water treatment</li> <li>- eradication of <i>Legionella</i> in sanitary installations</li> <li>- room/space/surface/tools/apparatus decontamination through vaporising</li> <li>- decontamination of food products (vegetables, meat, fish, etc.),</li> <li>- various applications including air purification, toxin removal, plant protection, bioremediation (including removal of pesticides, hydrocarbons, etc.), veterinary applications and human care applications including pharmacy, parapharmacy, general cosmetics, body care, dermatology and hair care (non-limitative list).</li> </ul>
<b>Current state of development</b>

EcoClearProx<sup>®</sup> is already commercialised directly by ABT Belgium or under different brand names through various subcontractors in many European and non-European countries, while further innovations and authorisations are still ongoing.

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