

Statement regarding inhalation of Z-water when spraying the product.

Z-water contains a very low concentration of potassium hydroxide (0.17%), which does not result in classification of the product.

The potassium hydroxide forms potassium and hydroxide ions in aqueous solution, which leads to that pH becomes more alkaline (Z-water have a pH of 12.5).

This means that when you spray the product during use, you spray alkaline water, which is not harmful to health, as both potassium and hydroxide ions occur naturally in the human body.

High pH values (≥ 11.5) often have effects on the skin and mucous membranes, but due to Z-water's low concentration of potassium hydroxide and low buffer capacity, irritation does not occur when the hydroxide ions react with proteins in the skin and mucous membranes.

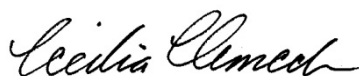
Contact with skin and mucous membranes leads promptly to a decrease in the product's pH. The absence of irritation is also supported by existing skin irritation studies for potassium hydroxide (https://chem.echa.europa.eu/100.013.802/dossier-view/c6ac857e-9432-4f17-8a03-ac0f9aa2394b/IUC5-fc8b8d82-b958-4e44-bcf3-ba984aba7f25_ed030743-0343-4593-b76d-fa7596ab1c79?searchText=1310-58-3), as well as by conclusions from the use of Z-water.

Furthermore, Z-water is not volatile and due to the design of the spray nozzle, no aerosol is formed when the product is sprayed. The droplets that come out of the spray nozzle are so heavy that they do not remain in the air. Instead, they quickly reach the surface to be treated, which makes the risk for inhalation of the product very low.

According to ECHA (European Chemicals Agency) harmonized classification of solutions with potassium hydroxide are classified as irritating to the skin and eyes from 0.5% up to 2%, but not as irritating when inhaled

(<https://chem.echa.europa.eu/100.013.802/harmonised/469316?searchText=1310-58-3%20>). Z-vatten containing 0.17% potassium hydroxide are therefore not irritating when inhaled.

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Cecilia Clemedson, Ph.D.,
European Registered Toxicologist
AdvocoTox AB
Vintervägen 17
182 74 Stocksund
www.advocotox.se