

**Lothar Fruth****Pharmacist**

Specialist Pharmacist for Toxicology and Ecology  
Publicly Certified and Authorized Expert for  
Toxicological Risk Assessments (IHK Hanover)

**Toxicology Expert Services Fruth**

An der Feldscheide 1

D-37083 Göttingen

Germany

Phone +49 (0) 551/379 10 46

Fax + 49 (0) 551/379 11 47

E-mail: [info@tox-expert.de](mailto:info@tox-expert.de)

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**Food Safety Certificate for the Products****AKEMI® Crystal Clean  
AKEMI® Crystal Clean Spray****for the Cleaning of Natural and Artificial Stone Surfaces with Food Contact**

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**Report:** TESF #19011

**Sponsor:** AKEMI® chemisch technische Spezialfabrik GmbH  
Lechstr. 28  
D-90451 Nürnberg  
Germany

## 1 Objectives

The following certificate covers the safety of food, which has been prepared or placed on kitchen countertops being cleaned according to the use instructions with these products.

Any issues with regard to worker safety, hazardous substance legislation, technical safety for users (e.g. also with regard to dermal exposure), regulatory affairs, labelling and efficacy are not the subject of this document.

## 2 Product Description

According to the product claims, the products to be evaluated are also to be used for cleaning of surfaces such as kitchen countertops; in other words, surfaces on which food will be prepared or is supposed to be prepared.

This document is intended solely for the purpose of consumer safety and the prevention of potential health hazards by consumption of food prepared on kitchen countertops which had been cleaned with this product.

The products are used in professional and in private surrounding.

## 3 Methodology of the Toxicological Risk Evaluation

According to the definition in § 2 (6) No 7 of the LFGB - German Food, Consumer Goods and Feed Code - of 03/06/2013 (LFGB: "Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch": German Federal Law Gazette No 27 of 10/06/2013, page 1426) household cleaning products may be classified as consumer articles.

For such articles the above-mentioned Food, Consumer Goods and Feed Code states in § 30:

- "Consumer articles must not be produced if they, when used for their intended or foreseeable purpose, are able to impair health due to their composition, in particular due to toxicologically active substances or impurities" (quotation, translated from § 30 No 1 German Food, Consumer Goods and Feed Code)
- "Products are not allowed to be placed on the market if they, when used for their intended or foreseeable purpose, are able to impair health due to their composition, in particular due to toxicologically active substances or impurities" (quotation, translated from § 30 No 2 German Food, Consumer Goods and Feed Code).

In this document shall not be discussed, if these requirements have to be fulfilled from the formal or legal point of view, but they provide an acceptable general description of the aim of a toxicological risk assessment for cleaning products. Since they do not provide a methodology for a toxicological risk assessment in a precise manner, the algorithm of such an evaluation should be defined here:

- As first step has to be evaluated, if the formulation contains substances of high concern, which may pose a risk, if they may migrate from the cleaned surfaces to foodstuff. This means especially substances, which are classified as carcinogenic, mutagenic, or toxic to reproduction according to the CLP-Regulation 1272/2008 based on the safety data sheets. If the final product contains such a substance in a concentration, which leads to a

classification of the formulation, the product is considered to be not suitable for cleaning of surfaces with food contact.

- As next step has to be checked, if the fragrances, which are added to the cleaning product are safe for the intended use. This is an important step, because any fragrances may pose a risk to affect the smell or taste of foodstuff in a negative way. Typically, all other ingredients of such a cleaning product are not relevant regarding such effects, because their residues on the cleaned surfaces are negligible regarding taste or smell. The evaluation of the fragrances is executed based on the IFRA certificates from the supplier.
- Any ingredient of the cleaning product, which comprises substances, which are used as food, or known as ingredients of food or are allowed as food additives in Europe or the USA or can be used as processing aids for food production is considered as safe without further evaluation.
- Regarding the remaining ingredients is to be checked, if they are used in other household cleaning products like dishwashing liquids with comparable exposures scenario. In this case, they are considered to be safe for the use in the evaluated products.
- Substances, being used as ingredients in cosmetic products for the application on human body like in mouthwash products in similar concentrations which are evaluated as safe, are also considered to be safe for the use in the evaluated products.
- The final step of the risk evaluation is an overall assessment based on the above described steps.

If these steps do not indicate a health risk for the consumers, who do eat foodstuff, which had been prepared or laid down on the cleaned surfaces, the evaluated products will be classified as safe.

#### **4 Results of the Assessment**

Details regarding the formulation, which are used for the assessment and the design of the analytical study cannot be laid down in this document, since it contains confidential business information.

As overall conclusion can be stated, that the toxicological risk for consumers from food can be stated as negligible, if the evaluated products are applied according to the use instructions.

## 5 Conclusion

Based on prerequisites from chapter 1, the product description from chapter 2, the outcome of the evaluation according to the methodology as described in chapter 3, can be stated, that

**AKEMI® Crystal Clean**  
**AKEMI® Crystal Clean Spray**

are considered to be safe for the cleaning of natural and artificial stone surfaces with food contact.

## 6 Validity

This certificate is valid as long as no significant changes, i.e. the technical instructions for use and any quantitative and/or qualitative changes in the formulation, are made.

A re-evaluation of a product is required when significant safety-related complaints are made arising from its use.

Also newly generated and sound scientific data on any of the raw materials may warrant a re-evaluation of this assessment.

## 7 Approval

### Author

Lothar Fruth

26/04/2019



Date, signature

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