

Project #20095

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## **Food Safety Certificate for the Product AKEMI Intensive Cleaner**

**for the Cleaning of Natural and Artificial Stone Surfaces with Food Contact**

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**Sponsor:** AKEMI® chemisch technische Spezialfabrik GmbH  
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## 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 the product "AKEMI® Intensive Cleaner".

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

The use of the evaluated product is described by the sponsor by:

*"AKEMI Intensive Cleaner is designed to effectively combat heavy soiling such as films of oil or grease, soot, rubber marks, various waxes and self-shining emulsions on alkali resistant natural and artificial stone, fine stoneware, clinker and ceramic surfaces and the like. The product is primarily used in food processing establishments, kitchens and living space as well as workshops and industrial plants."*

According to the product claims, the product to be evaluated may be used for cleaning of 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 after having had contact with surfaces which had been cleaned with this product according to the use instructions (indirect oral uptake).

The product is 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.
- 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 product.
- 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 product.
- Based on chemical - physical properties it is also taken into account, if only technically unavoidable residues may remain in the cleaned surface. Such residues are classified as acceptable.
- 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 product 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 product is 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® Intensive Cleaner**

is 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

Lothar Fruth

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*Publicly Certified and Authorized Expert for Toxicological Risk Assessments (IHK Hannover)*

3/2/2021 *LU & K*

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