



Publicly Certified and Authorized Expert for  
Toxicology of Cosmetics and Consumer Articles  
Attested by the Chamber of Commerce „Mittlerer  
Niederrhein“

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**Certificate**

**on Human Innocuousness of**

**LUCRASPIN<sup>®</sup> OH 412**

**LEVACO Chemicals GmbH  
CHEMPARK Leverkusen  
Kaiser-Wilhelm-Allee  
D-51368 Leverkusen**

## **Description of product LUCRASPIN® OH 412**

The product LUCRASPIN® OH 412, as is to be certified in the following for its human innocuousness, comprises a liquid formulation (mixture of various raw materials) which will be applied on fibers and nonwoven for their subsequent use for production of external sanitary products (articles) like sanitary towels, incontinence products and baby diapers, i.e. without any special limitations adults as well as children are the target groups of these products.

According to the specifications of the sponsor, the product LUCRASPIN® OH 412 is not used in tampon production (sanitary article for internal intimate hygiene application).

The proprietary composition (qualitative and quantitative recipe) was provided to the signatory authors and served the basis for the human-toxicological evaluation as follows.

## **Human-toxicological evaluation**

In a first step all raw materials used in the product formulation according to its qualitative recipe were checked for their basic suitability considering their toxicological profile regardless of their specific use in hygiene products.

This suitability could be conclusively shown for all raw materials.

Thereafter in a second step, the raw materials were then reviewed with regard to their suitability regarding their specific application to fibers and nonwoven at a maximum concentration of 0.6 weight%.

This review for specific proof of the suitability was performed by the respective comparison of these raw materials when used in cosmetic products. In due consideration of similar exposure conditions, this comparison can be considered as target-oriented; it is also plausible since cosmetic products will be/can be used for external intimate hygiene purposes as well.

By this procedure and taking into account relevant exposure scenarios, it could be shown that the product LUCRASPIN® OH 412 is devoid of any relevant acute (dermal) toxicity, does not possess irritative properties towards the skin and/or mucous membranes, lacks any skin sensitization, and would not be systemically harmful with regard to adverse effects to human health; substances known for their CMR (cancerogenic, mutagenic, reprotoxic) potency do not form part of the product formulation.

## **Conclusion**

The product LUCRASPIN® OH 412 can be regarded as safe for up to a maximum concentration of 0.6 weight% for the treatment of fibers and nonwoven for their use in the manufacture of sanitary products (articles) for external intimate hygiene.

## Validity

The aforementioned human-toxicological evaluation is valid as long as no significant and safety related modifications have been made concerning the qualitative and/or quantitative composition.

An update of this evaluation is necessary when safety relevant adverse effects become evident, the origin of which may be attributed to the use of the product LUCRASPIN® OH 412 in fibers and nonwoven of sanitary hygiene products.



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