

# FOOD CONTACT

## BYK Regulatory Information

### AQUACER 507

HDPE-based wax emulsion for improved surface properties in aqueous coating systems.

Technically recommended use level:

8-16 % additive (as supplied) based upon solid binder for automotive OEM coatings.

15-30 % additive (as supplied) based upon a solid binder for automotive refinish coatings.

#### Summary

AQUACER 507 is suitable according to the following compositional provisions for food contact applications, as indicated:

Paper and paperboard		
EU	Suitable for food contact paper and paperboard	Yes
	Regulation (EU) No. 10/2011	Yes
	German BfR XXXVI 'Paper and board for food contact'	Yes
USA	21 CFR 176.170 'Components of paper and paperboard in contact with aqueous and fatty foods'	No
	21 CFR 176.180 'Components of paper and paperboard in contact with dry food'	Yes
China	GB9685-2016, table A.6 'Paper'	No

**Without the full evaporation of 2-diethylaminoethanol, the food contact status for AQUACER 507 is not valid.**

Solvents and other formulation aids are not covered by the food contact status.

This summary only reflects conducted evaluations on existing regulations. It does not exclude compliant use in additional regions or applications. Explanations below show details on considered regulations and evaluations.

## Explanation

### Paper and paperboard

#### EU Regulation (EU) No. 10/2011

The active components of the product are directly listed in Annex 1- table 1 of Commission Regulation (EU) No. 10/2011 of 14 January 2011 (PIM) (as amended). There are SML values applicable.

AQUACER 507 contains 2-diethylaminoethanol (DEAE). This amine is currently evaluated as a formulation aid, thus, a separate listing as an "additive" under the PIM-Regulation (EU) 10/2011 is not required. However, the classification as a formulation aid is connected to its boiling point at 163°C (evaporation is assumed) and its low toxicity (listing in national food contact coatings legislation). Therefore, evaporation and residual amount of this substance needs to be monitored by the final user. Art. 3 of Framework Regulation (EC) 1935/2004 applies.

Without the full evaporation of 2-diethylamino-ethanol, the food contact status for AQUACER 507 is not valid.

#### German BfR XXXVI 'Paper and board for food contact'

For this product, either the components themselves or the monomers and starting substances used for manufacturing are covered by the German BfR-Recommendation XXXVI. 'Paper and board for food contact'.

#### Dual use additive

The product contains dual use additives for which restrictions apply:

- E914 – oxidized polyethylene (ca. 30%)
- E514 – sodium sulphate (ca. 0,35 %)

Therefore, the product can be recommended for food contact paper and paperboard in the EU.

Solvents and other formulation aids are not covered by the food contact status.

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#### USA 21 CFR 176.170 'Components of paper and paperboard in contact with aqueous and fatty foods'

The product does not comply with the compositional requirements of 21 CFR 176.170, since not all components are listed within the respective section.

#### 21 CFR 176.180 'Components of paper and paperboard in contact with dry food'

The product complies with the compositional requirements of 21 CFR 176.180, since all components are listed within the respective section.

Therefore, the product can be recommended for paper and paperboard as described in 21 CFR 176.180.

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Solvents and other formulation aids are not covered by the food contact status.

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**China**      **GB9685-2016, table A.6 'Paper'**

Not all the active components of the product are listed in GB9685-2016 table A6 for paper application.

Therefore, the product cannot be recommended for paper and paperboard as described in GB9685-2016, table A.6.

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**General Remarks**

Regulations apply within the context of respective regional framework regulations, e.g. Regulation (EU) No. 1935/2004 and FDA 21 CFR 174.5. Since traces of unknown processing aids cannot be fully excluded, compliance with general requirements is the responsibility of the end user.

BYK reserves the right to change or update the information without notice. At most, this letter deems to be actual for three years commencing the date of issue.

**Food Contact Team**  
Regulatory Affairs  
BYK-Chemie GmbH

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*This issue replaces all previous versions*

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