

FOOD CONTACT

BYK Regulatory Information

BYK-302

Silicone surface additive for solvent-free, solvent-borne, and aqueous coating systems and printing inks with medium reduction of surface tension and medium increase of slip.

Summary

BYK-302 is suitable according to the following compositional provisions for food contact applications, as indicated:

Adhesives		
	Suitable for food contact adhesives	Yes
Europe	Regulation (EU) No. 10/2011	Yes
	German BfR XIV 'Polymer Dispersions'	Yes
	German BfR XXXVI 'Paper and board for food contact'	Yes
	USA	21 CFR 175.105 'Adhesives'
China	GB9685-2016, table A.5 'Adhesives'	No
Coatings		
	Suitable for food contact coatings	Yes
Europe	Regulation (EU) No. 10/2011	Yes
	German BfR XIV 'Polymer Dispersions'	Yes
	CoE ResAP (2004) 1	Yes
	USA	21 CFR 175.300 'Resinous and polymeric coatings'
China	GB9685-2016, table A.2 'Coatings'	No
MERCOSUR	GMC Resolution n. 39/19	No
	GMC Resolution n. 02/12	No
Printing inks		
Europe	Suitable for food contact printing inks	Yes
	Swiss Ordinance 817.023.21, Annex 10	Yes
Industry	Nestlé Printing Inks for Food Packaging (07/04/2022)	See explanation
	EuPIA Exclusion List (March 2021)	Yes

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

Adhesives

Europe

Regulation (EU) No. 10/2011

All components of this product are directly listed in Annex I – Table I of Regulation (EU) No. 10/2011 (including all amendments). Specific Migrations Limits and/or restrictions apply.

German BfR XIV ‘Polymer Dispersions’

The product is covered by the compositional requirements of BfR XIV ‘Polymer Dispersions’.

German BfR XXXVI ‘Paper and board for food contact’

The product is covered by the compositional requirements of BfR XXXVI ‘Paper and board for food contact’.

Dual use

The product contains a ‘dual use additive’ to which restrictions apply: 2,6-Di-tert-butyl-p-cresol (BHT; CAS-No. 128-37-0, E321, amount < 0.03%).

In summary, the product can be recommended for use in food contact adhesives in the EU.

Formulation aids are not covered by the food contact status.

USA

21 CFR 175.105 ‘Adhesives’

The product does not comply with Sec. 175.105 of Title 21 CFR (FDA) Regulations for indirect food additives.

China

GB9685-2016, table A.5 ‘Adhesives’

Not all components are listed in GB9685-2016.

Coatings

Europe **Regulation (EU) No. 10/2011**

All components of this product are directly listed in Annex I – Table I of Regulation (EU) No. 10/2011 (including all amendments). Specific Migrations Limits and/or restrictions apply.

German BfR XIV ‘Polymer Dispersions’

The product is covered by the compositional requirements of BfR XIV ‘Polymer Dispersions’.

CoE ResAP (2004) 1

Either the components themselves or the monomers and starting substances used for manufacturing are covered by the CoE ResAP (2004) 1, Version Feb. 2009.

Dual use

The product contains a ‘dual use additive’ to which restrictions apply: 2,6-Di-tert-butyl-p-cresol (BHT; CAS-No. 128-37-0, E321, amount < 0.03%).

In summary, the product can be recommended for use in food contact coatings in the EU.

Formulation aids are not covered by the food contact status.

USA **21 CFR 175.300 ‘Resinous and polymeric coatings’**

The product can be used in compliance with the requirements of FDA 21 CFR 175.300, if used as recommended below. Based on studies and external consultation, we recommend following use conditions:

- Max. use level of 0.04% in wet coating formulations.
- For formulations with a solid content of 40% and a dry thickness of 12 µm.
- The use level can be adapted for deviating thickness and solid content.

Formulation aids are not covered by the food contact status.

China **GB9685-2016, table A.2 'Coatings'**

Not all components are listed in GB9685-2016.

MERCOSUR **GMC Res. n. 39/19 & n. 02/12**

The product does not comply with the compositional requirements of MERCOSUR GMC Resolution n. 39/19 or MERCOSUR GMC Resolution n. 02/12.

Therefore, the product is not authorized for use in coatings.

Printing inks

Europe **Swiss Ordinance 817.023.21, Annex 10**

This product is conform with the compositional requirements of the part for printing inks for packaging of the Swiss Ordinance 817.023.21 (Version of 1 October 2022) since all components are listed in Annex 10. Specific migration limits apply.

Additional note: the non-listed D4 (CAS 556-67-2) is present, as an impurity. Its amount is referred to in our BRIEF document.

Therefore, the product can be recommended for food contact printing inks in Europe.

Industry **Nestlé Printing Inks for Food Packaging (07/04/2022)**

According to the recipe, the product does not intentionally contain any of the substances listed in Table 5 – Table 8 of the Nestlé Printing Inks for Food Packaging (07/04/2022). The product does contain SVHC-substances D4 and D5 as impurities, as mentioned in 4. 'General Nestlé Exclusions and Minimisations'.

EuPIA Exclusion List (March 2021)

According to the recipe, none of the substances listed in Annex 1 (Group C – G) of the EuPIA Exclusion List (March 2021) are present. The product itself is not classified and labeled with any of the Hazard Statements given in Group A and B.

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.

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