

September 6, 2023

# TEGO® Foamex 852

## Food Contact Information

### **EU: Regulation 10/2011 (latest published version)**

TEGO® Foamex 852 is in compliance with EU–Regulation 10/2011 on plastic materials and articles intended to come into contact with food and its amendments. It contains two substances with SML and one dual use additive.

### **BfR Recommendation**

TEGO® Foamex 852 is in compliance with BfR–Recommendation XIV (polymer dispersions) and contains two substances with SML.

TEGO® Foamex 852 is also in compliance with BfR recommendation XXXVI: product is allowed to be used as sizing agents according to part B. production aids /I. sizing agents/ No.10. Polymer dispersions.

### **Switzerland: SR 817.023.21 (latest published version)**

TEGO® Foamex 852 is in compliance with the “Ordinance of the FDHA on Materials and Articles (SR 817.023.21)”. All components (additives and / or monomers) are listed in Annex 10 in the lists for evaluated (A) substances. It contains two substances with SML.

### **German Ink Ordinance (GIO) / Consumer Goods Regulation (BedGgstV)**

TEGO® Foamex 852 may be used for the manufacturing of printing inks for packaging intended for direct and indirect contact with food as defined in the German BedGgstV – status 2 December 2021. The components are either fully listed in Annex 14, table 1 or in Regulation (EU) No. 10/2011, Annex I, table 1 with Specific Migration Limits (SML) or restrictions.

### **China: GB 9685–2016**

TEGO® Foamex 852 is listed with respect to its active standard composition in GB 9685–2016 for use in Coatings with Food Contact only.

## Japan: Japanese Positive List (PL) for Direct Food Contact

The Japanese positive list of substances used in synthetic resins for utensils, containers and packaging (UCP) in accordance with the implementation of the amended Food Sanitation Act came into force *on 1 June 2020. Since then*, Japan's Ministry of Health, Labour and Welfare (MHLW) published several draft versions of revised and restructured lists and continues to amend the lists and provisions during the granted five-year grace period. Therefore, the status of our products varies with the activities of MHLW and cannot be confirmed finally. Please, do not hesitate to ask for a temporary status in urgent cases.

## USA: FDA

TEGO® Foamex 852 may be used in compliance with FDA 21 CFR 175.105.

It may be used in compliance with FDA 21 CFR 175.300, if used up to max. 130 mg/sqm food contact area and in compliance with FDA 21 CFR 176.170 and 176.180, if used as defoamer.

## Mercosur

TEGO® Foamex 852 is in compliance with MERCOSUR/GMC/RES. N° 39/19 and MERCOSUR/GMC/RES.N° 02/12 for plastics with two SML. It also contains one dual use additive.

## EUPIA EXCLUSION LIST FOR PRINTING INKS AND RELATED PRODUCTS

(latest published version)

Selection Criteria A and B: Please refer to Safety Data Sheet (Chapter 3).

We would like to confirm that we do not expect the presence of substances listed in the EUPIA "Exclusion List for Printing Inks and Related Products", in Selection Criteria C and Substances Lists D to G (listed substances in the table) in TEGO® Foamex 852.

Substances
Pigments and substances based on: <ul style="list-style-type: none"><li>• Antimony</li><li>• Arsenic</li><li>• Cadmium</li><li>• Chromium (VI)</li><li>• Lead</li><li>• Mercury</li><li>• Selenium</li></ul>
Pigment colourants: <ul style="list-style-type: none"><li>• Auramin (Basic Yellow 2 – CI 41000)</li><li>• Chrysoidin (Basic Orange 2 – CI 11270)</li><li>• Fuchsin (Basic Violet 14 – CI 42510)</li><li>• Indulin (Solvent Blue 7 – CI 50400)</li></ul>

<ul style="list-style-type: none"> <li>• Kresylen (Basic Brown 4 – CI 21010)</li> </ul>
<p>Solvents:</p> <ul style="list-style-type: none"> <li>• 2-Methoxyethanol 109-86-4</li> <li>• 2-Methoxyethyl acetate 110-49-6</li> <li>• 2-Ethoxyethanol 110-80-5</li> <li>• 2-Ethoxyethyl acetate 111-15-9</li> <li>• Monochlorobenzene</li> <li>• Dichlorobenzene</li> <li>• Volatile chlorinated hydrocarbons, such as trichloroethylene, perchlorethylene and methylenechloride</li> <li>• Volatile fluorochlorinated hydrocarbons</li> <li>• 2-Nitropropane</li> <li>• Methanol</li> </ul>
<p>Plasticisers:</p> <ul style="list-style-type: none"> <li>• Chlorinated naphthalenes</li> <li>• Chlorinated paraffins</li> <li>• Monocresyl phosphate</li> <li>• Tricresyl phosphate</li> <li>• Monocresyl diphenyl phosphate</li> </ul>
<p>Various Compounds:</p> <ul style="list-style-type: none"> <li>• Diaminostilbene and derivatives</li> <li>• 2,4-Dimethyl-6-tertiary-butylphenol</li> <li>• 4,4 Tetramethyldiaminobenzophenone (Michler's Ketone)</li> <li>• Hexachlorocyclohexane</li> </ul>

### Nestlé Guidance Note on Packaging Inks (latest published version)

We do not expect the presence of following substances within TEGO® Foamex 852:

#### General exclusions

Titanium Acetyl Acetonate (TAA)
<i>Ortho</i> -Phthalate plasticizers
Bisphenol A (BPA) and materials manufactured from or incorporating BPA in reacted form as part of the chemical structure
Nitrocellulose resins
Vegetable oils/fatty acid esters with strong odours
Heavy/Toxic metal in amounts exceeding the respective limits mentioned in the Swiss ordinance
Solvents and other chemicals which give off-odour or taint to the food
Perfluoro compounds must not be used, except for PTFE waxes
Mineral oils containing aromatic substances (MOAH) must not be used
Mineral oils containing saturated hydrocarbons (MOSH) must be minimised, and their residual value must be below 0.1% of the dry film
Photoinitiators mentioned in the "EuPIA Suitability List of Photoinitiators and Photosynergists for Food Contact Materials – October 2020

Odour: Specific to the product

**Table 1: Exclusion list for pigments**

Pigments	Color index	CAS number	Swiss Ordinance
Pigment Red 81	45160:1	12224-98-5	B
Pigment Red 81:1	45160:3	80083-40-5	B
Pigment Red 81:5	45160:4	63022-06-0	B
Pigment Red 169	45160:2	12237-63-7	B
Pigment Green 1	42040:1	1325-75-3	B
Pigment Blue 1	42595:2	1325-87-7	B
Pigment Violet 1	45170:2	1326-03-0	B
Pigment Violet 2	45175:1	1326-04-1	B
Pigment Violet 3	42535:2	1325-82-2 67989-22-4	B
Pigment Violet 27	42535:3	12237-62-6	B
Pigment Violet 39	42555:2	64070-98-0	B

**Table 2: Exclusion list for Photo-Initiators**

PI Name	CAS Number	Swiss Ordinance
2-Hydroxy 2-methyl propiophenone	7473-98-5	B
2-(Dimethylamino)ethyl benzoate	2208-05-1	B
- Benzophenone	119-61-9	A
- 2-Methyl benzophenone	131-58-8	A
- 4-Methyl benzophenone	134-84-9	A
- 2,4,6-trimethylbenzo- phenone	954-16-5	B
1-Hydroxycyclohexyl phenylketone	947-19-3	B
2,2-Dimethoxy 2-phenyl acetophenone	24650-42-8	B
2-Methyl 4'-(methylthio) 2-morpholinopropiophenone	71868-10-5	B
- 4-Isopropyl 9H-thioxanthen-9-one	83846-86-0	A
- 2-Isopropyl 9H-thioxanthen-9-one	5495-84-1	A
2,4-Diethyl 9H-thioxanthen-9-one	82799-44-8	B
Diphenyl (2,4,6-trimethyl benzoyl) phosphine oxide	75980-60-8	A

**Table 3: Minimize list for Photo-Initiators**

PI Name	CAS Number	Swiss Ordinance
Irgacure	119313-12-1	A
Other monomeric Benzophenones (not forbidden above) benzoate	various	A / B

**Table 4: Exclusion list for acrylates**

Chemical name	CAS number	Swiss Ordinance
Butanediol Diacrylate (BDDA)	1070-70-8	B
Diethylene glycol diacrylate (DEGDA)	4074-88-8	B
Isodecyl acrylate (IDA)	1330-61-6	B
Octyl acrylate (ODA)	2499-59-4	A
Phenoxy ethyl acrylate	48145-04-6	B

**Table 5: Minimize list for acrylates**

Chemical name	CAS number	Swiss Ordinance
Trimethylol propane triacrylate (TMPTA)	15625-89-5	B
Dipropylene glycol diacrylate (DPGDA)	57472-68-1	B
1, 6-Hexanediol diacrylate (HDDA)	13048-33-4	B
2-Ethyl hexyl acrylate (2EHA)	103-11-7	A
Mixtures of pentaerythritol tri- and tetra-acrylates (PETA)	3524-68-3	B
Tetraethylene glycol diacrylate (TEGDA)	17831-71-9	B

**Table 6: Exclusion list for solvents**

Chemical name	CAS number	Swiss Ordinance
Monochlorobenzene	108-90-7	A
Toluene	108-88-3	A
1-methyl-2-pyrrolidone	872-50-4	A

**Table 7: Minimize list for solvents**

Chemical name	CAS number	Swiss Ordinance
Methanol	67-56-1	A
Cyclohexane	110-82-7	A
Methylethylketone (MEK)	78-93-3	A
Methylisobutylketone (MiBK)	108-10-1	A
Hexanol	111-27-3	A
2-Ethyl-1-hexanol	104-76-7	A
n-Octanol	111-87-5	A
Butylglycol	111-76-2	A
Butyldiglycol	112-34-5	A
Ethyldiglycol	111-90-0	A
Hexyleneglycol	107-41-5	A
Butoxypropanol	5131-66-8	A
Butoxypropoxypropanol	29911-28-2	A
Ethanediol	107-21-1	A
Diethyleneglycol	111-46-6	A
Triethyleneglycol	112-27-6	A
Butylglycolacetate	112-07-2	A

1-Methoxy-2-propylacetate	108-65-6	A
Ethylbenzene	100-41-4	A
1-Pentanol	71-41-0	A

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Finished food contact materials or articles containing this product as a component, need to comply inter alia with Overall Migration Limit (OML) requirements – as specified in the regulations. Verification of compliance with migration limits (OML and SML) should be carried out in accordance with the rules laid down there. We would like to point out that it is in the sole responsibility of the manufacturer of the final material or article to assure the compliance with the OML/SML requirements under actual and foreseeable conditions of use, and to check it on a regular basis. The manufacturer of food contact materials or articles, containing this product as a component, must in particular ascertain that these finished materials or articles meet the general regulatory requirement that they do not endanger human health, or bring about an unacceptable change in the composition of the food or deterioration in the organoleptic characteristics thereof.

The information given above is based on and represents our current compositional knowledge (based on the knowledge of the production process, supplier information for raw materials and analytical data where applicable).

In case of provided values these are considered to be typical concentrations and are not part of product specification.

All provided information is based on our present knowledge and experience and is true and complete to the best of our knowledge and belief. However, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied.

**In case of any questions concerning the provided information or if you need additional advice you are welcome to contact us:**

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