

# SURFYNOL® 104 PG 50

# **Food Contact Information**

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

SURFYNOL® 104 PG 50 as an additive is not in compliance with EU-Regulation 10/2011 on plastic materials and articles intended to come into contact with food and its amendments, as some components are not included in the Union List as such.

#### **BfR Recommendation XXXVI**

The components of SURFYNOL® 104 PG 50 are in compliance with BfR-Recommendation XXXVI, XXXVI/2.

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

SURFYNOL® 104 PG 50 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 list Part (A) substances with one SML.

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

SURFYNOL® 104 PG 50 is in compliance with the compositional requirements for printing inks intended for direct and indirect contact with food as defined in 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. SML or specific restrictions apply.

China: GB 9685 - 2016

The components of SURFYNOL® 104 PG 50 are in compliance with GB 9685.

#### 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**

SURFYNOL® 104 PG 50 may be used in compliance with the following sections and may be subject to any applicable limitations:

FDA 21 CFR 175.105

FDA 21 CFR 175.300

FDA 21 CFR 178.3570

FDA 21 CFR 178.3910

SURFYNOL® 104 PG 50 is cleared under 21 CFR 175.300 in accordance with the following restriction (Section (b) (3) (xxix)): "For use only in can coatings which are subsequently dried and cured at temperatures of at least 193°C (380°F) for 4 minutes."

To be in compliance with 21 CFR 178.3570 and 21 CFR 178.3910, SURFYNOL® 104 PG 50 may be used at a level of up to 0.5% in the lubricant.

#### Mercosur:

SURFYNOL® 104 PG 50 has not yet been evaluated regarding Mercosur Regulations.

# **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 SURFYNOL® 104 PG 50.

#### **Substances**

Pigments and substances based on:

- Antimony
- Arsenic
- Cadmium
- Chromium (VI)
- Lead
- Mercury
- Selenium

#### Pigment colourants:

- Auramin (Basic Yellow 2 CI 41000)
- Chrysoidin (Basic Orange 2 Cl 11270)
- Fuchsin (Basic Violet 14 CI 42510)

- Indulin (Solvent Blue 7 CI 50400)
- Kresylen (Basic Brown 4 CI 21010)

#### Solvents:

- 2-Methoxyethanol 109-86-4
- 2-Methoxyethyl acetate 110-49-6
- 2-Ethoxyethyl acetate 111-15-9
- 2-Ethoxyethanol 110-80-5
- Monochlorobenzene
- Dichlorobenzene
- Volatile chlorinated hydrocarbons, such as trichloroethylene, perchlorethylene and methylenechloride
- Volatile fluorochlorinated hydrocarbons
- 2-Nitropropane
- Methanol

#### Plasticisers:

- Chlorinated naphthalenes
- Chlorinated paraffins
- Monocresyl phosphate
- Tricresyl phosphate
- · Monocresyl diphenyl phosphate

#### Various Compounds:

- Diaminostilbene and derivatives
- 2,4-Dimethyl-6-tertiary-butylphenol
- 4,4 Tetramethyldiaminobenzophenone (Michler's Ketone)
- Hexachlorocyclohexane

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

We do not expect the presence of following substances within SURFYNOL® 104 PG 50:

#### General exclusions

Titanium Acetyl Acetonate (TAA)

Ortho-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	В
Pigment Red 81:1	45160:3	80083-40-5	В
Pigment Red 81:5	45160:4	63022-06-0	В
Pigment Red 169	45160:2	12237-63-7	В
Pigment Green 1	42040:1	1325-75-3	В
Pigment Blue 1	42595.2	1325-87-7	В
Pigment Violet 1	45170:2	1326-03-0	В
Pigment Violet 2	45175:1	1326-04-1	В
Pigment Violet 3	42535:2	1325-82-2	В
		67989-22-4	
Pigment Violet 27	42535:3	12237-62-6	В
Pigment Violet 39	42555:2	64070-98-0	В

Table 2: Exclusion list for Photo-Initiators

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

Table 3: Minimize list for Photo-Initiators

PI Name	CAS Number	Swiss Ordinance
Irgacure	119313-12-1	Α

Other monomeric Benzophenones	various	A / B
(not forbidden above) benzoate		

# Table 4: Exclusion list for acrylates

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

# Table 5: Minimize list for acrylates

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

# Table 6: Exclusion list for solvents

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

# Table 7: Minimize list for solvents

Chemical name	CAS number	Swiss Ordinance
Methanol	67-56-1	Α
Cyclohexane	110-82-7	Α
Methylethylketone (MEK)	78-93-3	Α
Hexanol	111-27-3	Α
2-Ethyl-1-hexanol	104-76-7	Α
n-Octanol	111-87-5	Α
Butylglycol	111-76-2	Α
Butyldiglycol	112-34-5	Α
Ethyldiglycol	111-90-0	Α
Hexyleneglycol	107-41-5	Α
Butoxypropanol	5131-66-8	A

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Butoxypropoxypropanol	29911-28-2	Α
Ethanediol	107-21-1	Α
Diethyleneglycol	111-46-6	Α
Triethyleneglycol	112-27-6	Α
Butylglycolacetate	112-07-2	Α
1-Methoxy-2-propylacetate	108-65-6	Α
Ethylbenzene	100-41-4	Α
1 - Pentanol	71-41-0	Α

Please note that SURFYNOL® 104 PA contains  $<0.005\%\,$  Methylisobutylketone (MiBK) CAS#108-10-1 as impurity.

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Finished food contact materials or articles containing this product as a component, need to comply inter alia with migration and/or extraction limits or any other restrictions – as specified in the applicable regulations. Verification of compliance with above mentioned limits/restrictions should be carried out in accordance with the respective rules. 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 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.

Furthermore, the given information is intended for persons having the required skill and know-how and it does not relieve you from verifying the suitability of the information given for a specific purpose prior to use by testing, which should be carried out only by qualified experts. Use or application of such information is at your sole responsibility and risk, without any liability on the part of Evonik Operations GmbH.

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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