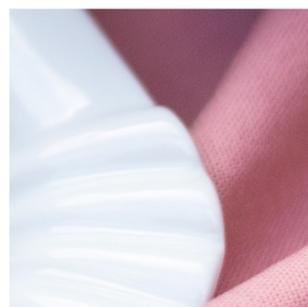


Low  
Migration  
—  
Product  
guide



We bring it all together.



# Low Migration

## Product guide



### UV/EB RAW MATERIAL AND TECHNICAL SOLUTION PROVIDER

IGM Resins is the leading global provider of energy curable raw material solutions to a wide variety of industries such as graphic arts, industrial coatings, adhesives and 3D printing. The combination of our global presence, unique market driven and customer focused approach, technical and regulatory support, and our comprehensive portfolio of products covering photoinitiators, monomers, oligomers and additives, is the cornerstone of our success.

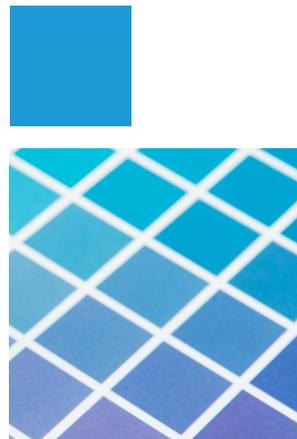
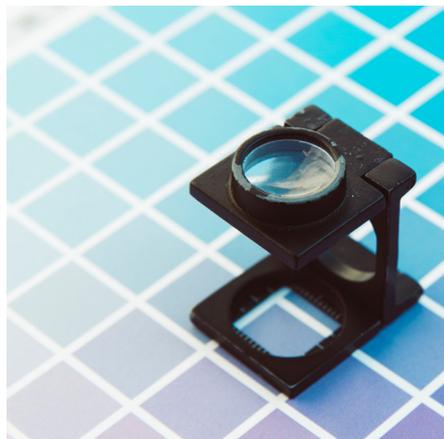
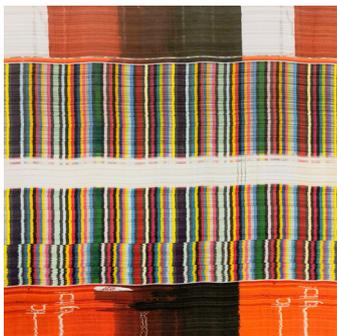
Our dedication to energy curing technology and the markets we serve is emphasized by the

development of next generation products for innovative integrated solutions, and ongoing investment into state-of-the-art manufacturing capabilities.

### HOW TO GET MORE FROM US

Migration is the transfer of substances from the packaging to the packaged goods. These substances may not always be detected in odour and taste tests or even when consumed. These substances may be found by chemical analysis using migration cells and sensitive chromatography or mass spectroscopy equipment.





Chemical Identity	Cas Nr	Alkoxyated Y/N	Functionality	Molecular Wt	Swiss ordinance	Nestlé Compliant	Eupia compliant	Candidate List of SVHC	EU registration REACH	US Registration TSCA
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## MONOMERS

Photomer 4094	GPTA	52408-84-1	Yes	3	428	A Listed SML: 0.05 mg/kg	Yes	Yes	No	Yes	Yes
Photomer 4149	TMP3EOTA	28961-43-5	Yes	3	428	A Listed SML: 0.05 mg/kg	Yes	Yes	No	Yes	Yes
Photomer 4172	PPTTA	51728-26-8	Yes	4	573	A Listed SML: 0.05 mg/kg	Yes	Yes	No	Yes	Yes
Photomer 4306	DiTMPTA	94108-97-1	No	4	466	B listed	Yes	Yes	No	Yes	Yes
Photomer 4399	DPPA	1384855-91-7	No	5	524	B listed	Yes	Yes	No	Yes	Yes
Photomer 4666	DPHA	1384855-91-7	No	6	575	B listed	Yes	Yes	No	Yes	Yes

Functionality	Key Features	Swiss Ordinance	Nestlé Compliant	Eupia Compliant	Candidate List of SVHC	EU registration REACH	US Registration TSCA
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## POLYESTER ACRYLATES

Photomer 5429	4	Especially suitable for High Pigment loading as i.e. in white formulations. Low viscosity	B listed	Yes	Yes	No	Polymer Exempt	Yes
Photomer 5434	4	Good flexibility and reactivity, especially for clear coatings	B listed	Yes	Yes	No	Polymer Exempt	Yes
Photomer 5437	4	Low viscosity, Excellent Adhesion, designed for Shrink Sleeve	B listed	Yes	Yes	No	Polymer Exempt	Yes
Photomer 5442	6	Fast cure, litho properties, very good pigment wetting, good flow ability	B listed	Yes	Yes	No	Polymer Exempt	Yes
Photomer 5443	6	Petia Free 6 Functional Polyester acrylate for High Speed printing, good litho performance, good pigment wetting	B listed	Yes	Yes	No	Polymer Exempt	Yes



Functionality

Key Features

Swiss Ordinance

Nestlé Compliant

Eupia Compliant

Candidate List of SVHC

EU registration REACH

US Registration TSCA

## POLYETHER ACRYLATES

Product	Functionality	Key Features	Swiss Ordinance	Nestlé Compliant	Eupia Compliant	Candidate List of SVHC	EU registration REACH	US Registration TSCA
Photomer 5662	4	Adhesion, flexibility, coating hardness	B listed	Yes	Yes	No	Polymer Exempt	Yes
Photomer 5850	2.5	Low viscosity, high reactivity	B listed	Yes	Yes	No	Polymer Exempt	No
Photomer 5930	4	Pigment wetting, high reactivity, chemical resistance, oxygen inhibitor	B listed	Yes	Yes	No	Polymer Exempt	Yes
Photomer 5050	4	Fast curing, high functionality, good mechanical resistance	Polymer Exempt	No	Yes	No	Polymer Exempt	No

## URETHANE ACRYLATES

Product	Functionality	Key Features	Swiss Ordinance	Nestlé Compliant	Eupia Compliant	Candidate List of SVHC	EU registration REACH	US Registration TSCA
Photomer 6210	2	Ease of handling, scratch resistance, flexibility, impact resistance, adhesion, non-yellowing	B listed	Yes	Yes	No	Polymer Exempt	Yes
Photomer 6643	2	High Elongation ca 100%, Suitable for more flexible systems, Lamination Adhesives, Tactile properties	B listed	Yes	Yes	No	Polymer Exempt	Yes

## AMINE ACRYLATE

Product	Functionality	Key Features	Swiss Ordinance	Nestlé Compliant	Eupia Compliant	Candidate List of SVHC	EU registration REACH	US Registration TSCA
Photomer 5006	1	Cure speed, high reactivity, chemical resistance, oxygen inhibitor		Yes	Yes	No	Yes	No

## ADHESION PROMOTER

Product	Functionality	Key Features	Swiss Ordinance	Nestlé Compliant	Eupia Compliant	Candidate List of SVHC	EU registration REACH	US Registration TSCA
Photomer 5028	3	Chlorinated polyester 40% of GPTA	Polymer Exempt	No	Yes	No	Polymer Exempt	Yes
Photomer 5042	3	Chlorinated polyester 40% of TMPTA	Polymer Exempt	No	Yes	No	Polymer Exempt	Yes

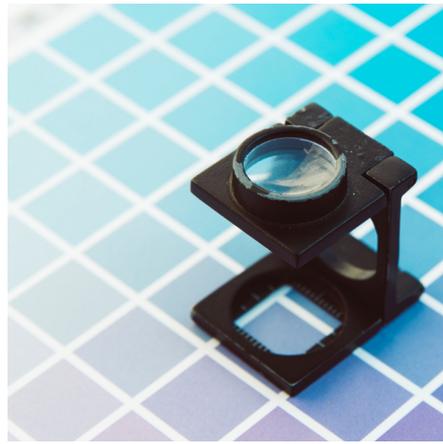
Swiss Ordinance SR 817.023.21 Ordinance on Materials and Articles, Annex 10 stipulates the substances that may be used for printing inks (1st December 2019)

Nestlé Guidance Note on Packaging Inks – October 2018

EuPIA exclusion policy for printing inks and related products (December 2018)

EuPIA Suitability List of Photoinitiators and Photosynergists for Food Contact Materials – May 2019

ECHA - Candidate List of SVHC (January 2020)



	Swiss Ordinance	Nestle Compliant	EuPIA Compliant (Exclusion Criteria)	EuPIA Suitability List	Candidate List of SVHC	EU Registration REACH	US Registration TSCA
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## POLYMERIC PHOTOINITIATORS

Omnipol BP	A Listed SML: 0.05 mg/kg	Yes	Yes	Yes	No	Polymer Exempt	Yes
Omnipol 2702	B Listed	Yes	Yes	If migration is <10 ppb	No	Polymer Exempt	Yes
Omnipol TX	A Listed SML: 0.05 mg/kg	Yes	Yes	Yes	No	Polymer Exempt	Yes
Omnipol BL 728	B Listed	Yes	Yes	If migration is <10 ppb	No	Polymer Exempt	Yes
Omnipol 910	B Listed	Yes	Yes	> 1000 Da	No	Polymer Exempt	LVE
Omnipol 9210	B Listed	Yes	Yes	> 1000 Da	No	Polymer Exempt	LVE
Omnipol TP	Polymer exempt and full registration pending	Yes	Yes	If migration is <10 ppb	No	Polymer Exempt	Polymer Exempt
Omnipol ASA	B Listed	Yes	Yes	If migration is <10 ppb	No	Polymer Exempt	Yes
Omnipol 894	Under review	Under review	Yes	Under review	No	Polymer Exempt	Yes

## FREE RADICAL PHOTOINITIATORS

Esacure ONE (Di-Functional)	A Listed SML: 0.05 mg/kg	Yes	Yes	Yes	No	Yes	Yes + FCN 772 (FDA)
Esacure 1001M (Di-Functional)	A Listed SML: 0.05 mg/kg	Yes	Yes	Yes	No	Yes	Yes
Esacure A198 (DI-Functional)	A Listed SML: 0.05 mg/kg	Yes	Yes	Yes	No	Yes	Yes
Esacure KIP 160 (DI-Functional)	A Listed SML: 0.05 mg/kg	Yes	Yes	Yes	No	Yes	Yes
Omnirad 127 (Di-Functional))	A Listed SML: 0.05 mg/kg	Yes	Yes	Yes	No	Yes	Yes



	Swiss Ordinance	Nestlé Compliant	EuPIA Compliant (Exclusion Criteria)	EuPIA Suitability List	Candidate List of SVHC	EU Registration REACH	US Registration TSCA
Omnirad 819 (Multi-Functional)	A Listed SML: 3.30 mg/kg	Yes	Yes	Yes	No	Yes	Yes
Omnirad 379 (Subject to Read Across to 369)	A Listed SML: 0.05 mg/kg	Yes	Yes	Yes	No	Yes	Yes
Omnirad 2959	A Listed SML: 0.05 mg/kg	Yes	Yes	Yes	No	Yes	Yes
Omnirad TPO-L	B Listed	Yes	Yes	If migration is <10 ppb	No	Yes	Yes

Swiss Ordinance SR 817.023.21 Ordinance on Materials and Articles, Annex 10 stipulates the substances that may be used for printing inks (1st December 2019)

Nestlé Guidance Note on Packaging Inks - October 2018

EuPIA exclusion policy for printing inks and related products (December 2018)

EuPIA Suitability List of Photoinitiators and Photosynergists for Food Contact Materials - May 2019

ECHA - Candidate List of SVHC (January 2020)

Our technical team is here to offer you support and advice to help you meet your goals. For our full product range, please refer to the UV/EB Radcure Product Guide.

Disclaimer:

The information in this overview is presented in good faith and believed to be correct, but is provided on the condition that persons receiving it will make their own assessment on its correctness referring to the latest version of official documentation (e.g. safety data sheet).

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- Sales and Distribution
- Manufacturing
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