



02.11.2017

### Introductory note

# DyStar Textile Products Selection of June 2017 to meet the requirements of Benetton Restricted Substances List, as of September 2017

Within their Technical Safety Specifications of September 2017, the Benetton Group S.p.A. defined chemical requirements for Benetton products: Benetton Product Restricted Substance List (RSL).

DyStar has assessed its global product range for textile coloration and finishing against the Benetton Product RSL for apparel and this document indicates the suitability of each product.

Recommendations are based on our experience with well-established test methods and on dye application tests performed under standard lab conditions. It may be that these are not always representative of the conditions used by our customers. The assessment and recommendations given by DyStar therefore do not absolve the user from making their own tests and controls to ensure that the finished textile material conforms to the Benetton Product RSL for apparel. This holds especially for the requirement on extractable heavy metals and respective migration levels according to EN 71-3 (toys), because these are influenced not only by the chemical formulations (e.g. dyestuffs) used, but mainly by many other dyeing and finishing parameters. Concerning chlorinated benzenes and toluenes we refer to a maximum limit of 1.0 mg/kg on the finished article, unless no additional restriction is specified in our assessment.

Amber Suitable with certain limitations indicated by footnotes in the tables

X Red NOT recommended

As the world's leading manufacturer of textiles dyes and auxiliaries, DyStar shares Benetton's concern for the health of its customers as well as for the environment and working conditions.

The use of high quality products from DyStar and the technical expertise of DyStar personnel offer customers the best assurance of meeting the high standards of the Benetton Product RSL.

Our assessment covers products for coloration and finishing of textiles on the DyStar product range which we recommend for apparel articles in compliance with the Benetton Product RSL (status: September 2017). For information on compliance of DyStar products with the limits of the ZDHC MRSL 1.1 2015 kindly refer to the DyStar ZDHC MRSL Compliant Product list.

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In case of missing items or uncertainties do not hesitate to contact your sales representative.

With best regards,

Dr. Anette Weber Technology Global Product Safety & Ecology Dr. Christine Lorkowski Technology Global Product Safety & Ecology

The downloadable pdf-document has been issued electronically and is valid without a signature.

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## Overview of DyStar product ranges

#### **Textile Colorants**

#### For cellulosic fibers

o Reactive dyes Levafix®, Procion®, Remazol® and Lava Dye

o Direct dyes Sirius®

Vat dyes
 Dyes for Denim
 Indanthren® Colloisol and liquid
 DyStar Indigo, Cassulfon®

Azoic / developing dyes
 Fast dyes, Naphtol AS<sup>®</sup>, Phtalogen<sup>®</sup>

For polyester fibers

Disperse dyes
 Dianix<sup>®</sup>

For wool

After chromed dyes
 Acid metal complex dyes
 Diamond<sup>®</sup>
 Isolan<sup>®</sup>

o Reactive dyes Realan®

Acid dyes
 Supralan<sup>®</sup> and Telon<sup>®</sup>

For polyamide

Acid metal complex dyes
 Acid dyes
 Isolan<sup>®</sup>
 Telon<sup>®</sup>

Acid dyes
 Acid/MC dyes for fashion garment
 Lava Dye Antique

For acrylic fibers

o Basic dyes Astrazon®

For textile printing

Pigment preparations
 Inks for digital printing
 Colaris®

o Printing inks (liquid)

Jettex® A, Jettex® D and Jettex® R

Powder ink concentrates
 Jettex® highly purified dyes: Jettex® A and Jettex® R

**Auxiliaries** 

o Pretreatment & Dyeing & Printing Auxiliaries Sera®

Finishing Auxiliaries
 Laundry Auxiliaries
 Evo<sup>®</sup>
 Lava<sup>®</sup>





## DyStar products as per your eliot selection from 21.11.2018

# Postive List - Benetton® Product RSL Version September 2017

Dyestuff	Remarks	General remarks	children < 14 years	adults > 14 years
Lava Cell NDF			•	•





## DyStar products as per your eliot selection from 21.11.2018

## Footnotes, Postive List - Benetton® Product RSL Version September 2017

## Committed to Sustainability

At DyStar, our products and services help customers worldwide reduce costs, shorten lead times and meet stringent quality and ecological specifications.

Astrazon, Cassulfon, Dianix, DyStar, econfidence, eliot, Evo, Imperon, Indanthren, Isolan, Jettex, Lava, Naphtol AS, Optidye, Phtalogen, Procion, Realan, Remazol, Sera, Sirius, Supranol, Telon are registered trademarks of DyStar Colours Distribution GmbH, Germany.

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Information and our technical advice -

rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test

whether verbal, in writing or by way of trials

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