



30.05.2018

Introductory note

DyStar Textile Products Selection of March 2018 to meet the requirements of AFIRM Restricted Substances List (Version 03 of 2018)

AFIRM's mission is to reduce the use and impact of harmful substances in the apparel and footwear supply chain. Within their Restricted Substances List they therefore defined limit values for substances that are restricted on the textile raw materials and respective finished products.

DyStar has assessed its product range for textile coloration and finishing against the criteria of this current AFIRM Restricted Substances List (RSL) and this document indicates the suitability of each product for apparel and footwear.

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 article and textile raw material conforms to the AFIRM requirements. This holds especially for the requirement on extractable heavy metals, because these are influenced not only by the chemical formulations (e.g. dyestuffs) used, but mainly by many other dyeing parameters.

- Green Suitable without limitation according to AFIRM RSL
- » Amber Suitable with certain limitations indicated by footnotes
- ✗ Red NOT recommended

As the world's leading manufacturer of textiles dyes and auxiliaries, DyStar welcomes and supports the AFIRM mission on reduction of harmful substances in textile apparel and footwear.

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

Our assessment covers products for coloration and finishing of textiles on the DyStar product range which we recommend for articles in compliance with the AFIRM RSL (status: March 2018).

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.



Overview of DyStar product ranges

Textile Colorants

For cellulosic fibers

- Reactive dyes
- Direct dyes
- Vat dyes
- Dyes for Denim
- Azoic / developing dyes

Levafix[®], Procion[®], Remazol[®] and Lava Dye Sirius[®]
Indanthren[®] Colloisol and liquid
DyStar Indigo, Cassulfon[®]
Fast dyes, Naphtol AS[®], Phtalogen[®]

For polyester fibers

- Disperse dyes

Dianix[®]

For wool

- After chromed dyes
- Acid metal complex dyes
- Reactive dyes
- Acid dyes

Diamond[®]
Isolan[®]
Realan[®]
Supralan[®] and Telon[®]

For polyamide

- Acid metal complex dyes
- Acid dyes
- Acid/MC dyes for fashion garment

Isolan[®]
Telon[®]
Lava Dye Antique

For acrylic fibers

- Basic dyes

Astrazon[®]

For textile printing

- Pigment preparations
- Inks for digital printing
- Printing inks (liquid)
- Powder ink concentrates

Imperon[®]
Colaris[®]
Jettex[®] A, Jettex[®] D and Jettex[®] R
Jettex[®] highly purified dyes: Jettex[®] A and Jettex[®] R

Auxiliaries

- Pretreatment & Dyeing & Printing Auxiliaries
- Finishing Auxiliaries
- Laundry Auxiliaries

Sera[®]
Evo[®]
Lava[®]



DyStar products as per your *eliot* selection from **21.11.2018**

Postive List - AFIRM
Version 03, 2018

Dyestuff	Remarks	General remarks	textiles for children < 14	other textiles
Lava Zyme Lite Neu 50			●	●

- Green Suitable without limitation according to AFIRM RSL for apparel
- » Amber Suitable with certain limitations indicated by Footnotes in the table
- ✗ Red NOT recommended



DyStar products as per your *eliot* selection from **21.11.2018**

Footnotes, Postive List - AFIRM

Version 03, 2018

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.

Information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale and Delivery.

DyStar Colours Distribution GmbH
eliot@DyStar.com
www.DyStar.com