

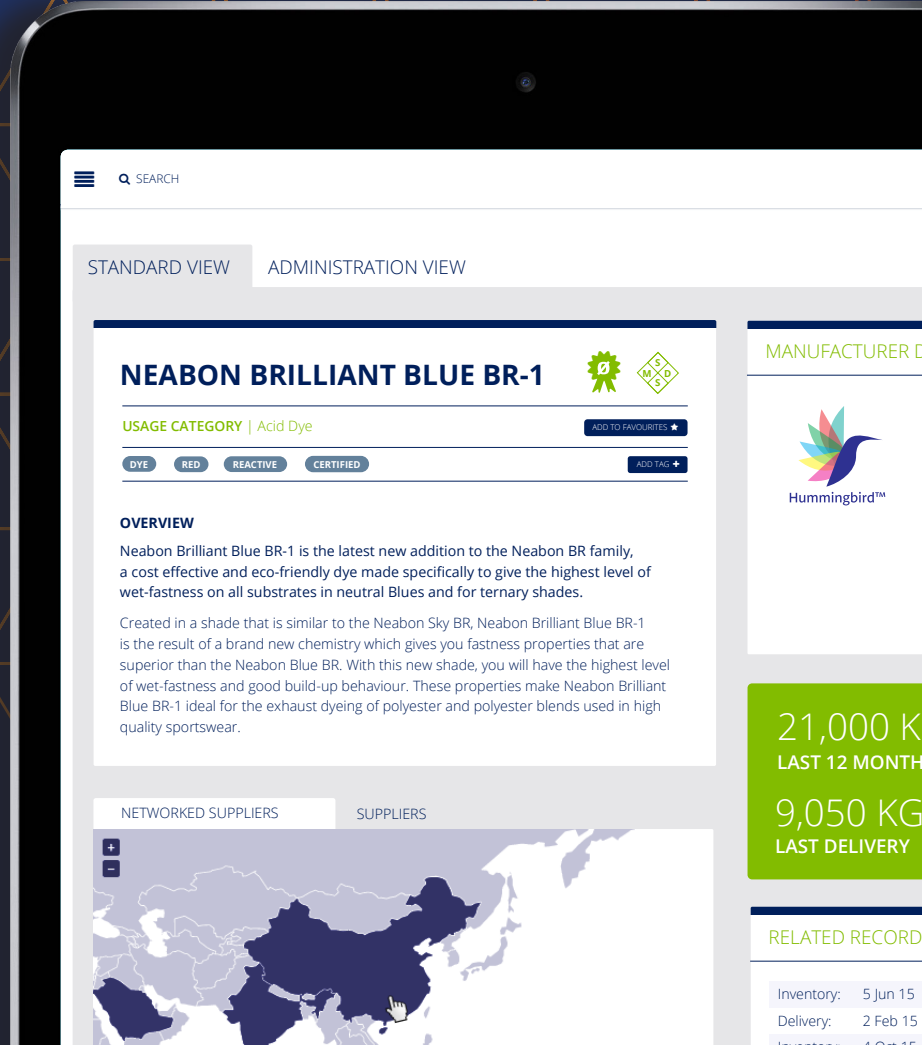


ADEC INNOVATIONS
BRINGING DATA TO LIFE

FOR CHEMICAL MANUFACTURERS

A CALL TO ACTION

HELP LEAD THE RETAIL INDUSTRY
TOWARDS ZERO DISCHARGE OF
HAZARDOUS CHEMICALS BY 2020



IN 2011, A GROUP OF MAJOR APPAREL AND FOOTWEAR BRANDS AND RETAILERS MADE A SHARED COMMITMENT TO HELP LEAD THE INDUSTRY TOWARDS ZERO DISCHARGE OF HAZARDOUS CHEMICALS (ZDHC) BY 2020.

TODAY, THESE LEADING BRANDS IN THE INDUSTRY ARE SIGNATORY MEMBERS OF THE ZDHC GROUP.



UNITED COLORS
OF BENETTON.

PVH

Limitedbrands

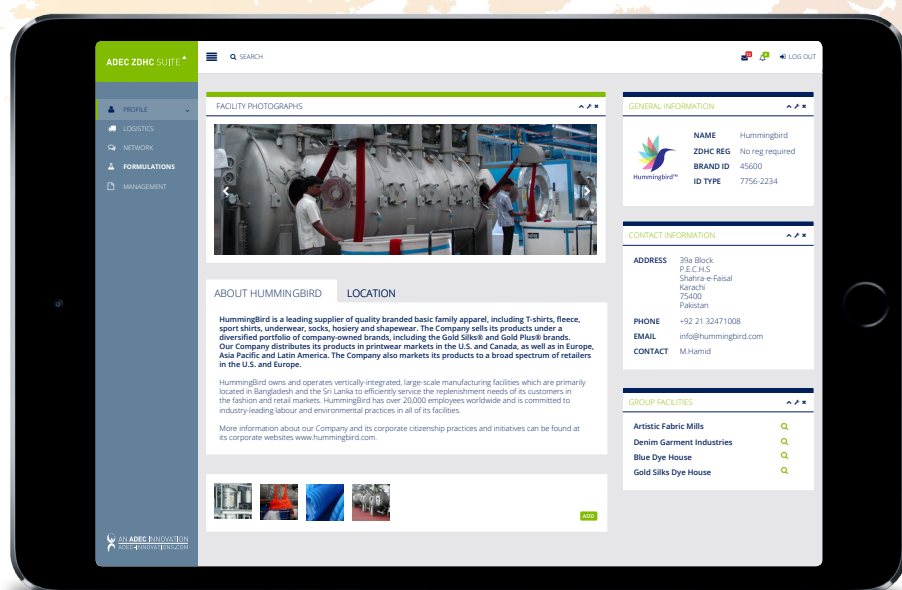
IN SUPPORT OF

Ø ZDHC

The ZDHC Group released its first Manufacturers Restricted Substance List (MRSL) on June 5, 2014, setting concentration limits for the chemical groups banned under the ZDHC Joint Roadmap.

Additional Associate Members of ZDHC include the Association of the German Sporting Goods Industry, the European Outdoor Group, GermanFashion and Jintex.

TO SUPPORT THIS INITIATIVE, ADEC INNOVATIONS (ADEC) DEVELOPED THE FIRST, COMPATIBLE ZDHC DATA EXCHANGE PLATFORM THAT ENABLES BRANDS, SUPPLIERS AND CHEMICAL COMPANIES TO SHARE CHEMICAL INFORMATION AND REPORT USE. THE ADEC INNOVATIONS ZDHC SOLUTION IS NOW IN USE ACROSS A GROWING NUMBER OF TEXTILE MILLS IN BANGLADESH, SRI LANKA, PAKISTAN, CHINA AND TAIWAN.



SUPPORT ZDHC WITH COMPLIANT PRODUCTS

ZDHC Group have developed industry standards to help textile and garment manufacturers identify and report the use of safe chemicals.

Throughout 2015, these standards are being trialled by ZDHC Brands and Suppliers worldwide.

As one of the primary developers of the ZDHC Data Standards and Pilot trials, ADEC Innovations is working with both chemical suppliers and third-party certifiers to arrange their MRSL-compliant products into the ZDHC open format.

AT THE REQUEST OF NIKE, ESPRIT AND LEVI STRAUSS, WE HAVE BEEN ASKED TO INVITE SELECT CHEMICAL MANUFACTURERS TO PUBLISH THEIR FORMULATION DATA INTO THE ADEC ZDHC DATABASE.

▶ IF YOUR COMPANY MANUFACTURES CHEMICALS FOR THE APPAREL INDUSTRY, WE WOULD LIKE TO COLLABORATE

THE ADEC INNOVATIONS ZDHC SUITE ENABLES CHEMICAL, TEXTILE AND GARMENT MANUFACTURERS TO SECURELY EXCHANGE INFORMATION IN-LINE WITH THE ZDHC STANDARDS.

FEATURES

- ▶ Advanced, multi-lingual web-based search tool for ZDHC MRSL-compliant chemical suppliers and products
- ▶ Directory of globally recognised, industry certifications e.g. bluesign® GOTS & OEKO-TEX®
- ▶ Customised and editable Company Profile pages
- ▶ Ability to securely manage and publish multiple lists of MRSL certified chemicals
- ▶ Advanced reporting and benchmarking.

BENEFITS

- ▶ Increase reach as your MRSL-compliant product ranges will be easily located by potential customers
- ▶ Save time by reducing information requests from customers
- ▶ Identify high- and low-performing geographical hotspots for ZDHC conformance, guiding sales opportunities
- ▶ Export multiple Product Lists in ZDHC XML format, ensuring interoperability with other compatible systems and reducing effort
- ▶ Automatically conform with the ZDHC Data Standard for Formulation Lists.

▼ EVERY CHEMICAL MANUFACTURER THAT PROVIDES INPUT INTO THE ADEC INNOVATIONS ZDHC SUITE HAS THEIR OWN PROFILE HOMEPAGE

The screenshot displays the ADEC ZDHC Suite interface for a product profile. The main content area is divided into several sections:

- Product Header:** "NEABON BRILLIANT BLUE BR-1" with a ZDHC MRSL logo and "USAGE CATEGORY | Acid Dye".
- Overview:** A paragraph describing the product as a cost-effective and eco-friendly dye, highlighting its wet-fastness properties.
- Manufacturer Details:** Information for Hummingbird, including contact person (M. Hamid), phone (+92 21 32471008), address (39a Block, P.E.C.H.S, Shahra-e-Faisal, Karachi, 75400, Pakistan), email (info@hummingbird.com), and website (www.hummingbird.com).
- Delivery Statistics:** A green box showing "21,000 KG LAST 12 MONTHS" and "9,050 KG LAST DELIVERY".
- Related Records:** A table listing inventory and delivery events:

Event	Date	Action
Inventory	5 Jun 15	Search
Delivery	2 Feb 15	Search
Inventory	4 Oct 15	Search
Inventory	12 Dec 15	Search
- Formulation Certificate:** A table showing compliance with ZDHC and Nike standards:

Type	Standard	Document	Source
3rd Party	ZDHC	Document icon	bluesign
Formulator	ZDHC	Document icon	Supplier
Formulator	Nike	Document icon	Formulator

▼ THE ADEC ZDHC FORMULATION DATABASE HELPS SECURELY MANAGE AND PUBLISH MULTIPLE LISTS OF MRSL-CERTIFIED CHEMICALS

▼ INTERACTIVE USER INTERFACE FOR PRODUCT ANALYSIS*

▼ NESTABLE LISTS FOR EASY SEARCHING*

* Scheduled availability in the 2015 Summer Release

GETTING STARTED



ENJOY THE BENEFITS

- ▶ **Improve efficiency** and **ensure compatibility** with other ZDHC-compliant systems by exporting your Formulation Lists in multiple formats, including ZDHC Standard XML
- ▶ **Increase business with new and existing buyers** since your MRSL-compliant formulations can be located using our built-in search engine
- ▶ **Enhance customer interactions** by providing visibility across multiple certifications and future Restricted Substance Lists (RSL's)*
- ▶ **Expand reach** by adding virtual catalogues with advanced governance, addressing specific buyers, sales regions* and sectors
- ▶ **Save time** as the number of certification & documentation requests from your buyers will decrease

*Scheduled availability in the 2015 Summer Release

FORMULATOR FAQs

WHAT IS THE ZDHC?

ZDHC is an initiative led by major apparel and footwear brands to help the industry reach **Zero Discharge of Hazardous Chemicals (ZDHC)** by 2020. The ZDHC community has published a Manufacturing Restricted Substance List (MRSL) which details hazardous substances which could potentially be used in the industry.

This list can be found at:
www.roadmaptozero.com

WHAT IS THE PURPOSE OF THE ZDHC PILOT?

The ZDHC member brands are developing an industry-wide standard to monitor self-assured and third-party (e.g. bluesign®) certified formulations that are compliant with the ZDHC MRSL. The purpose of the Pilot is to test that this standard comprises the necessary information to measure progress towards ZDHC.

WHAT ARE CERTIFICATIONS AND WHAT ARE THE DIFFERENT TYPES?

A certification is simply a written statement that a particular formulation is compliant with the ZDHC MRSL. A formulation's safety is measured by the number and types of certification available that guarantee its MRSL compliance.

WE ARE CURRENTLY COLLECTING TWO TYPES OF CERTIFICATION:

- 1. Formulator Certified:** If the Formulator (or chemical manufacturer) can provide written assurance that a formulation is compliant with the ZDHC MRSL, then the formulation can be classified as *"Formulator certified"*. For example, this could be in the form of a traditional formulation list, or preferably, a declared list of chemicals using the ZDHC-preferred template.
- 2. THIRD-PARTY CERTIFIED:** If this assurance is given by an external body such as bluesign®, Oeko-Tex, Eco-passport, etc it can be classified as *"Third-party certified"*.

Formulations which are neither Third-Party nor Formulator-certified will automatically be classified as *"Uncertified"* until the formulator or recognised third-party declare otherwise.

WHAT IS THE ZDHC APP AND HOW CAN I ADD MY LIST OF FORMULATIONS TO IT?

The ZDHC Suite is an online database developed by ADEC Innovations and designed to help members of the apparel and footwear supply chain declare information about their chemical products and stocks. Currently, as part of a pilot program, ZDHC members are collaborating with select chemical companies to declare the MRSL compliance levels of their product ranges, in addition to any third-party certification and test data that may be available.

The ZDHC Group is also collaborating with certifying bodies and information providers such as bluesign® to achieve this.

We are inviting chemical companies to provide lists of their chemical formulations, indicating which of these can be assured as MRSL compliant, in addition to which of these have been accredited to an additional third-party standard, such as bluesign®.

To submit your list, email supportzdhc@adec-innovations.com

Once complete, you will be notified and your company will be provided with a secure login to ADEC's ZDHC Suite where you can modify your lists and certifications on an ongoing basis.

WHY SHOULD I UPLOAD MY CHEMICAL INFORMATION?

Uploading your chemical information will promote your company as a leader in a drive towards transparency and adoption of safe chemistries, whilst ensuring your compliant products are easily found and accurately certified. Please note that publishing your product catalogues in this format is entirely voluntary.

The information you supply will be valuable in the drive to Zero Discharge of Hazardous Chemicals and will help your existing customers quickly disclose the use of your products without needing to request additional information.

MY PRODUCTS ARE CERTIFIED BY A THIRD PARTY (E.G. BLUESIGN®). WHY AM I HAVING TO DECLARE MRSL COMPLIANCE AGAINST THIS NEW STANDARD?

The ZDHC Group has developed an open source data standard to enable any chemical manufacturer to disclose their chemical and certification information in a standardised format, regardless of who may have certified it.

This should not be confused with the information offered by independent certifiers of safe chemistries, e.g. bluesign®, which many ZDHC members continue to recognise and seek to complement.

Standardising and opening up basic information on chemicals, will enable the disparate solutions and service providers to interoperate, and numerous, independent certification standards e.g. bluesign® to be compared and interpreted in a consistent way.

As a result, the ZDHC Group has developed a standard chemical list template, allowing chemical suppliers to disclose their products and self-certify them against the ZDHC MRSL, whilst also highlighting any additional third-party certifications.

Suppliers can use this open, standardised data to make informed decisions about the products they buy as well as disclosing which products are being stored at specific facilities.

HOW MUCH DOES ADEC'S ZDHC SUITE COST?

At this time, ADEC Innovations is inviting chemical suppliers to host their chemical catalogues at no charge until December 2015.

HOW DO I MAINTAIN MY CHEMICAL CATALOGUE?

After your catalogue has been uploaded you will be provided with a secure login to the ADEC Innovations ZDHC Suite. Should you need to add new formulations to your chemical catalogue, or amend/delete existing ones, you can log in to the application directly and carry out the necessary alterations.

WHO IS ADEC INNOVATIONS?

ADEC Innovations (formerly ADEC Group) develops and delivers environmental, social and governance (ESG) solutions to help clients work smarter, more profitably and more efficiently. Focused on creating value and providing tangible, quantifiable benefits for businesses and governments around the world, ADEC Innovations expertise in sustainability, healthcare and knowledge management is supported by fully integrated technology and outsourcing services.

Headquartered in Manila, Philippines with locations in North America, Europe, Asia, Australia and Africa, ADEC Innovations has over 5,500 employees and processes more than 30 million transactions each month.

WHO CAN SEE MY DATA?

Suppliers, facilities and brands who are involved in the ZDHC Pilot will be able to see your catalogue of formulations, with their corresponding certification information. No other chemical companies will have access to your data.

HOW CAN I BE SURE MY DATA IS SECURE?

Some of the world's largest (and smallest) companies trust ADEC Innovations with their data. We take this responsibility very seriously. Our security is regularly audited to ensure your data is safe. We are audited to ISO 27001 & PCI standard.

IF YOU WOULD LIKE MORE INFORMATION ON OUR CONTROLS AND HOW WE SECURE CHEMICAL DATA, PLEASE CONTACT US:

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