CLEANCHAIN™

AN ADEC INNOVATION

IMPROVE CHEMICAL INFORMATION MANAGEMENT

IMPLEMENT CLEANCHAIN AND ZDHC GATEWAY WITHIN YOUR MANUFACTURING PROCESSES

Ø ZDHC
Gateway™

ADEC INNOVATIONS

ESG SOLUTIONS

CLEANCHAIN™

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Chemical management is becoming an increasingly urgent issue. More and more, companies are being asked to provide assurance on the use of chemicals during the textile and manufacturing process. In order to monitor the progress of these chemical commitments and confidently communicate to stakeholders, businesses need to collect and track a great deal of data and details – which is incredibly resource-intensive.

SOFTWARE TO STREAMLINE THE DATA MANAGEMENT PROCESS

ZDHC Gateway and CleanChain, an ADEC Innovation, are complementary software applications designed to manage this complex undertaking and provide the necessary assurance that you are reducing the use and discharge of hazardous chemicals.

ZDHC GATEWAY: PROVIDES STANDARDS FOR SAFE CHEMICAL USE AND WASTEWATER LIMITS

ø ZDHC
Gateway™

ZDHC's Gateway Chemical Module is an expanding, widely-accessible database for chemical manufacturers, textile suppliers and brands. Chemical producers can securely share their product data with brands, textile, footwear, and leather suppliers. Users browse an extensive, verified product library in order to determine how conformant their formulations are to the ZDHC Manufacturing Restricted Substances List (MRSL). The Chemical Gateway works in harmony with numerous third-party certifications and testing labs, including OKEO-Tex, GOTS, Tox Services and many other standards. Ultimately, Gateway enables facilities to find safer chemicals and make better sourcing decisions.

ZDHC's **InCheck Report**, available for textile suppliers through the Chemical Module (as well as certified partner tools), is a **standardized chemical inventory report** that summarizes and assesses a facility's input stream chemicals. For the textile, leather, and footwear industry,

this tool allows facilities to understand how well your chemical inventories meet ZDHC's MRSL conformance criteria. The **InCheck Report** can be downloaded in ZDHC Gateway and shared via email on a monthly basis.

ZDHC Gateway Wastewater Module is initiating efforts to consolidate industry guidelines on discharge criteria across value chains. This standard goes beyond regulatory compliance to ensure wastewater discharge does not adversely affect the environment and surrounding communities. The ZDHC Wastewater Guidelines set a unified expectation on wastewater quality and are available in English and Simplified Chinese.

To aid in disclosure and promote the adoption of these guidelines, ZDHC offers the **ClearStream Report**; a globally-accepted **wastewater reporting standard for output control.** The report is generated from verified wastewater test results that have been uploaded to the Wastewater Module by any of ZDHC's accepted laboratories. ClearStream Reports record performance and provide guidance on opportunities for improvement.

CLEANCHAIN™: ENABLES COLLABORATION BETWEEN BRANDS AND MANUFACTURING FACILITIES

CleanChain is an advanced **supply-chain chemical management, discharge and quality improvement system** that helps improve your information management and operational processes. CleanChain provides brands and retailers with a way to easily aggregate comparable information to promote supplier engagement and disclosure. CleanChain tracks chemical inventories, deliveries and usage (inputs), processes (batch), procedures (using assessments and questionnaires) and chemical outputs (wastewater data).

As a complementary system to the ZDHC Gateway, CleanChain currently provides access to ZDHC's InCheck Report, the ZDHC product library, and ZDHC's conformance criteria. CleanChain will also work in conjunction with ZDHC's ClearStream and Wastewater testing results.

In addition to supporting multiple MRSL, RSL and control standards, CleanChain provides an extensive chemical products library. The comprehensive CleanChain library includes ZDHC Gateway chemical products and chemical products that are not ZDHC conformant in order to provide the most complete chemical inventory that covers both safe and potentially hazardous chemicals. With CleanChain, you can track analyses of chemical products to augment and corroborate the conformance results.

Moving beyond inventory and compliance management, CleanChain also provides a centralized communication and collaboration tool between suppliers and brands/retailers. This includes questionnaires and assessments, corrective actions, shared laboratory data, and messaging services. These tools are designed to facilitate communications and improve accountability throughout the supply chain.

For more information about the ZDHC Gateway, visit **www.roadmaptozero.com** and for more information about CleanChain visit **cleanchain.adec-innovations.com**.
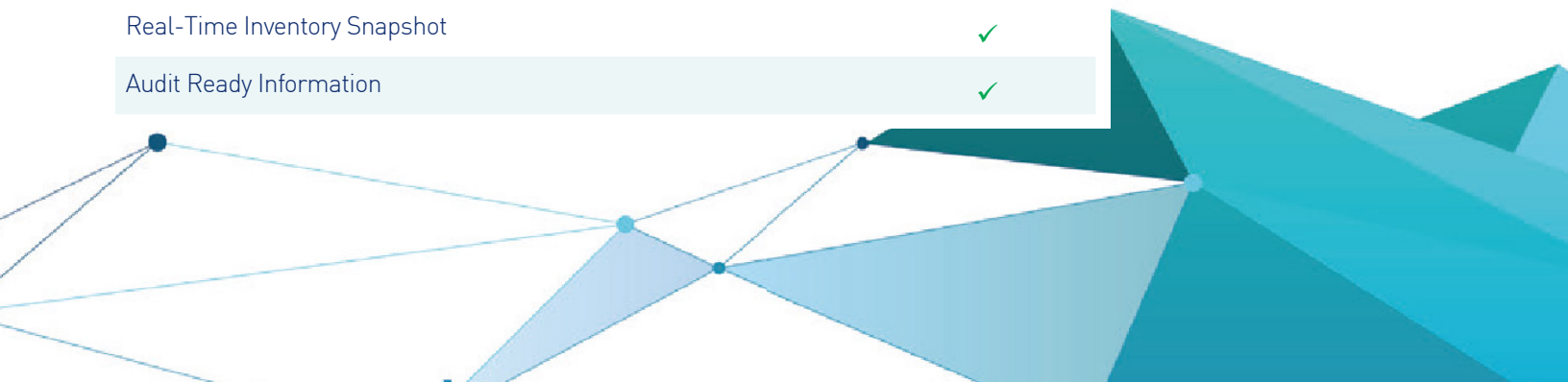
COMPLEMENTARY CAPABILITIES OF ZDHC GATEWAY AND CLEANCHAIN

CAPABILITY	ZDHC GATEWAY	CLEANCHAIN FOR ZDHC
Chemical Conformance Directory	✓	✓
Chemical Inventory Management		✓
SDS Links	✓	✓
SDS & TDS Repository		✓
Up to Date Chemical Information	✓	✓
Conformance Dashboards	✓	✓
Verified Data	✓	✓
Approved Laboratories	✓	✓
InCheck Report	✓	✓
Personalized Company Profile	✓	✓
Wastewater Analysis	✓	Available Soon
Verified Wastewater Test Results	✓	Available Soon
ClearStream Report	✓	Available Soon
Supply Chain Management		✓
Notifications & Alerts		✓
Formulation Reports		✓
Compliance Standards & Controls Library		✓
Flexible Data Entry		✓
Instant Data Sharing		✓
Real-Time Inventory Snapshot		✓
Audit Ready Information		✓

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For more information on CleanChain, visit www.cleanchain.com.

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