Zero Discharge of Hazardous Chemicals Group

3 July 2014

ROADMAP TO ZERO DISCHARGE OF HAZARDOUS CHEMICALS
CHALLENGES AND OPPORTUNITIES

TO GET STARTED WE ASKED OURSELVES:

• How do we know which hazardous chemicals are in use in our supply chains?
• When are these chemicals used in a way that poses harm?
• Which chemicals should we prioritise?
• How can we train and communicate to our suppliers and other stakeholders?
• How can we encourage both end-of-pipe controls & input management?
SEVEN KEY WORKSTREAMS

The Joint Roadmap, outlines our focus on seven workstreams.

WS 1: Chemical Hazard Assessment, Prioritisation and Action

WS 2: Training

WS 3: Right to Know

WS 4: Assessments and Audits

WS 5: Management Systems Approach, Structure and Documentation

WS 6: Stakeholder Partnering

WS 7: Chemicals Management Best Practices
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**PROGRESS TO DATE**

### 2013/2014 HIGHLIGHTS

<table>
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<tr>
<th>Completed benchmark effluent testing at 20 sites</th>
<th>Published a Framework for the Prioritisation of Hazardous Chemicals</th>
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<tr>
<td>Published the Right-to-Know Research</td>
<td>Published the Research List</td>
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<td>Completed the most complete, publicly available compilation of information on chemicals used in the textile industry</td>
<td>Published the MRSL</td>
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<td>Co-hosted a symposium with the China National Textile and Apparel Council</td>
<td>Created an audit protocol and conducted 25 pilot audits</td>
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Available at www.roadmaptozero.com
• PRTRs are being implemented in Australia, Canada, Chile, European Union, Japan, Mexico, Norway, Switzerland and the United States

• PRTR collaboration (government, private sector and the public) would meet one of the ZDHC key principles of engaging stakeholders to improve the apparel and footwear supply chain system

• Timescales involved to establish a credible PRTR pointed to the need for an interim action
Right-To-Know Actions

USE AVAILABLE DATA

STOP INTENTIONAL USE

PRTR

6 Months

1 Year

5 Years

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Stop Intentional Use

Publish MRSL – CAS No. & Limits

Chemical Manufacturer
  Self disclosed
  Formulation List

Dyehouse
  Sustainability Report
  Score
  Rating

Audit

Could be a % has their effluent checked only as part of the audit –
ZDHC Revised Approach (sphere of influence)

Textile Wet Processing

**Chemicals**
- Basic “Living” Chemical Inventory
- Advanced Chemical Fate Analysis

**Processes**
- Basic Optimised Operating Procedures
- Advanced Best Available Technology

**MILLS**

**Products**
- Responsible Chemical Manufacturer

**Effluent Treatment Plant**
- Chemical load
- Volume load

**Know-how**
- MRSL

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Alignment was on common language or schema for the free exchange of data.