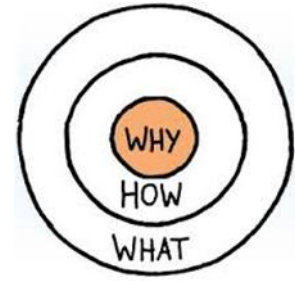


DESIGN SUSTAINABILITY FOR FUTURE GROWTH



Key Market Challenges

- ❑ Color is the most important factor in textile purchasing decisions....
- ❑ but Ecological and Environmental factors are having a game-changing impact on the market for Colorants and Coloration



Key Market Challenges

- ❑ **Dyes Production**
- ❑ **Textile Coloration Textile mills also under pressure from stricter environmental control**
- ❑ **Pressure on Brands on Pollution**
International Brands under pressure from NGOs on the Environmental Impact of their Textile Supply Chains: forcing rethink on textile buying behavior
e.g. Greenpeace DETOX Campaign



Key Market Drivers : Pressure on Brands on Ecology

International Brands under pressure from NGOs on Ecology & Social Responsibility, forcing rethink on textile buying behavior

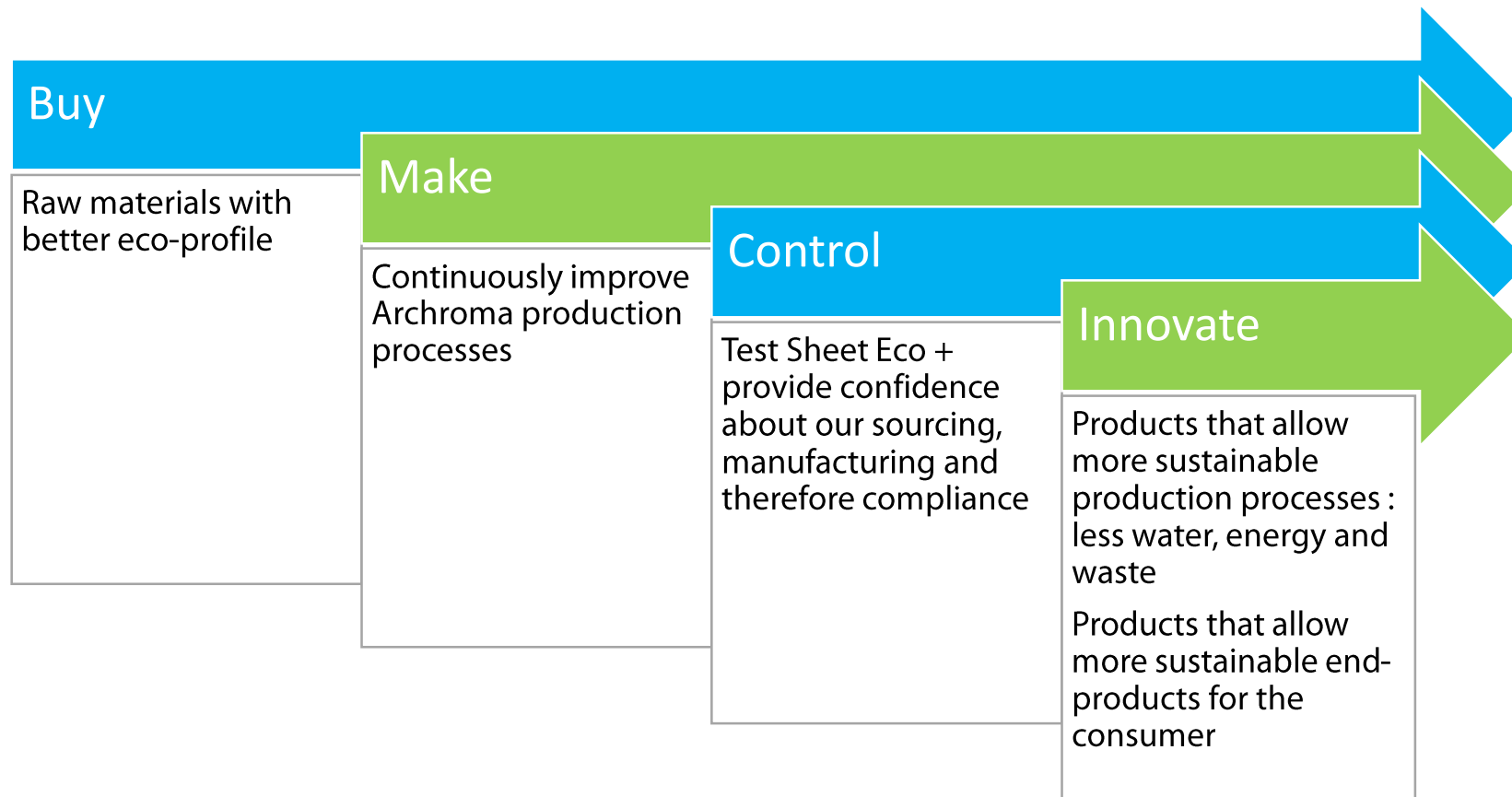
e.g. Greenpeace campaign about restricted substances on kid's clothes



my clothes are filled
with little monsters!



Archroma textile sustainability core values



Commitment to Sustainability

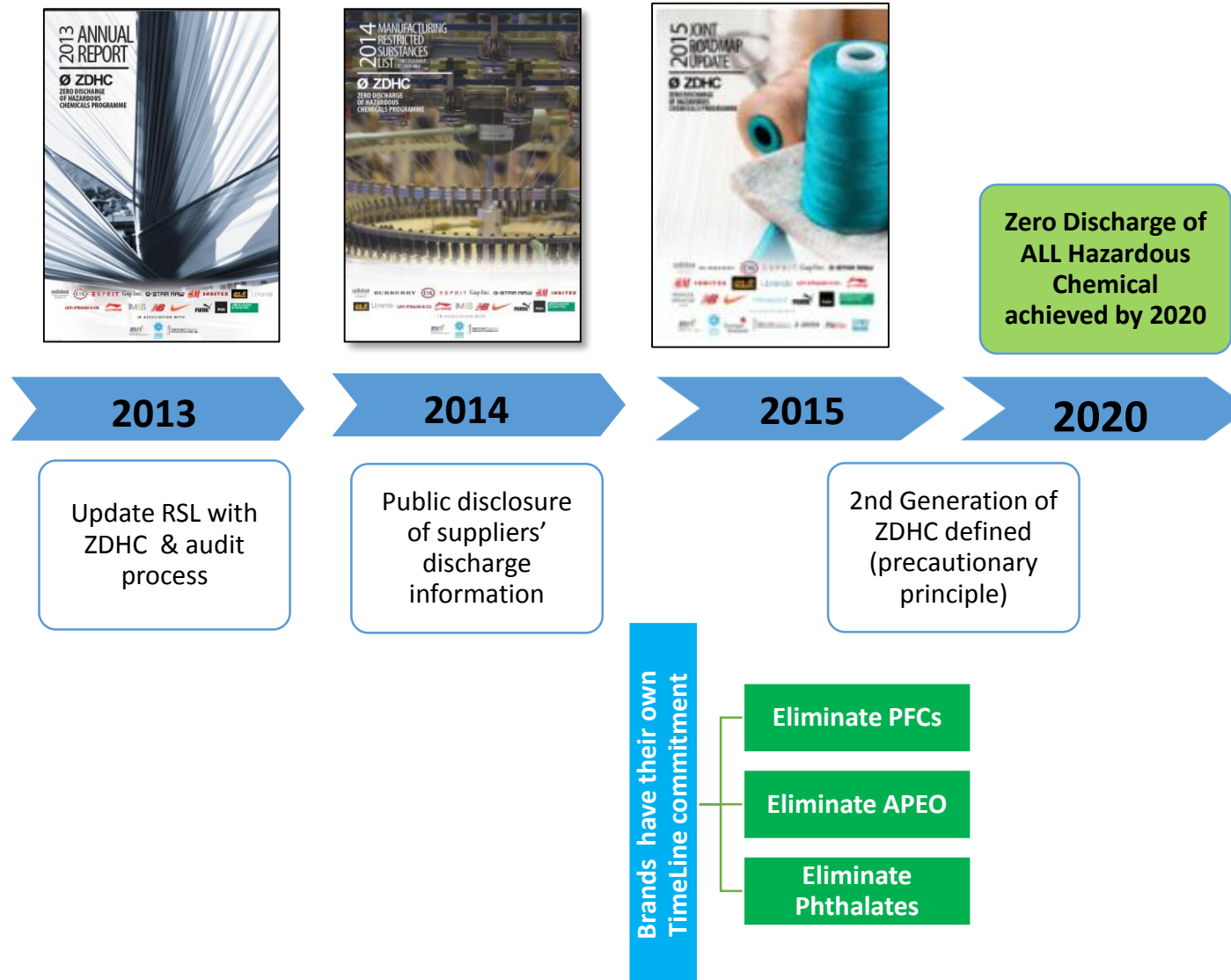


List of 11 Priority Chemical Groups

- ▶ Phthalates (ortho-phthalates)
- ▶ Brominated and Chlorinated flame retardants
- ▶ Azo dyes
- ▶ Organotin Compounds (e.g. TBT)
- ▶ Chlorobenzenes
- ▶ Chlorinated Solvents
- ▶ Chlorophenols
- ▶ Short-Chained Chlorinated Paraffins (SCCPs)
- ▶ Heavy Metals
(cadmium, lead, mercury, chromium (VI))
- ▶ APEOs/NPEs
- ▶ Perfluorinated Chemicals (PFCs)



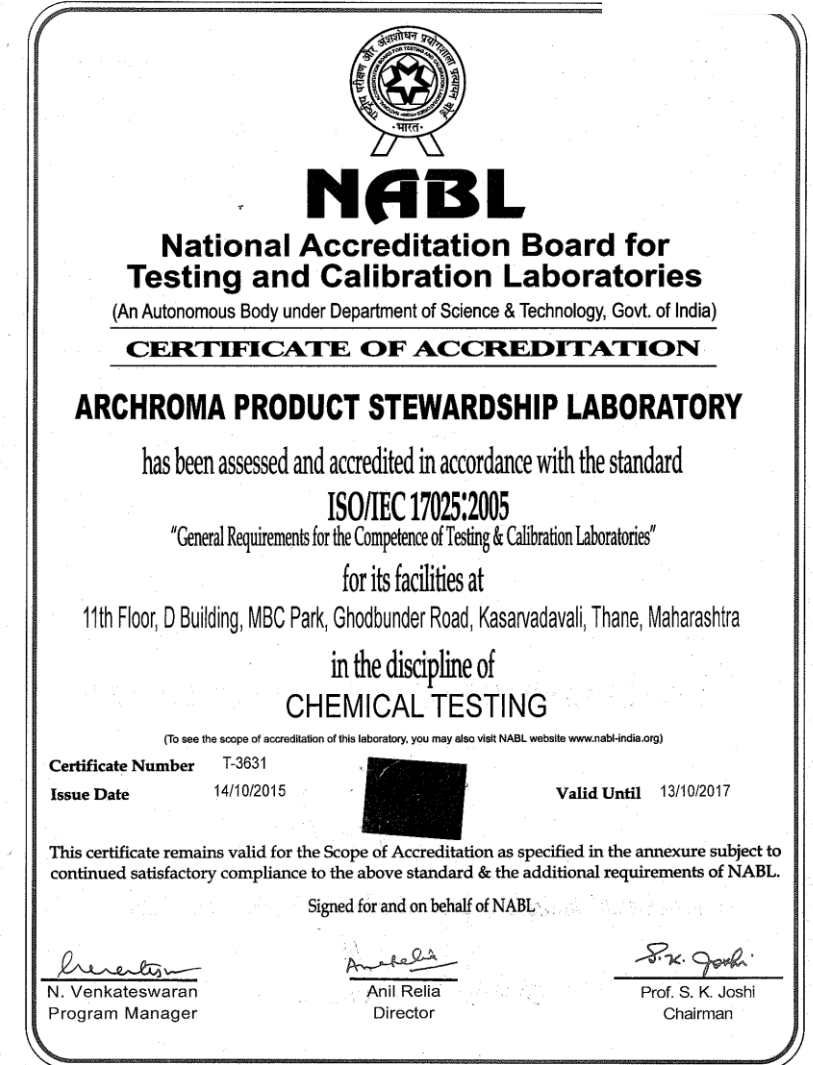
Road Map to Zero Discharge of ALL Hazardous Chemicals



- ❑ Dedicated lab for Product Stewardship testing only.
- ❑ Acquired by Archroma from Clariant on 1st April 2014
- ❑ Accredited for ISO 17025:2005 – Certificate No. T-3631

Three sections

- Physical testing section (21 tests)
- Restricted substances testing section (20 tests)
- Ecological testing section (4 tests)



GOTS - The Global Organic Textile Standard

Aim:

- Define worldwide **recognized** requirements that
 - ensure organic status of textiles- from harvesting of raw materials,
 - through environmentally and socially responsible manufacturing to labelling in order to provide a credible assurance to end consumer.
- ❑ Producers & manufacturers shall be enabled to export their organic fabrics and garments with one certification accepted in all major markets

Parameter	Criteria
Oral Toxicity	LD50 > 2000 mg/kg
Aquatic Toxicity	LC50, EC50, IC50 > 1 mg/l
Relation of biodegradability / eliminability to aquatic toxicity	Only allowed, if: < 70% and > 100 mg/l > 70% and > 10 mg/l > 95% and > 1 mg/l

CU Inspections & Certifications India Private Limited
C – 113, TTC Industrial Area,
Pawane MIDC, Navi Mumbai – 400709, India
<http://www.controlunion.com>
Tel.: +91 22 61294300 to 399

LETTER OF APPROVAL

For Colourants / Textile Auxiliaries

N° GOTS-C 835378-02.2016

CU Inspections & Certifications India Private Limited declares that
the Colourants and/or Textile Auxiliaries listed below have been assessed for

Archroma Management GmbH
Neuhofstrasse 11, Reinach - 4153
SWITZERLAND

on basis of their corresponding Material Safety Data Sheet (MSDS) and
on basis of further relevant information

according to the applicable criteria of the

Global Organic Textile Standard (GOTS)
- Version 4.0 -

with positive result.

Accordingly the listed Colourants and/or Textile Auxiliaries are approved as inputs
for application in the processing of GOTS certified textile products.

Colourants (Dyestuffs and Pigments)

Trade Name of Input	Type/ Utilisation	Date of Approval	Date of MSDS	Comments / Restrictions
Resul Black RDT- 2KS liq	Dyes / Colours	19/03/2015	17/01/2014	-

CU Inspections & Certifications India Private Limited
C – 113, TTC Industrial Area,
Pawane MIDC, Navi Mumbai – 400709, India
<http://www.controlunion.com>
Tel.: +91 22 61294300 to 399

Approval letter no **C 835378-02.2016**
Archroma Management GmbH

Total number of inputs (Textile colourants & auxiliaries) listed on this letter of approval: **414**

This Letter of Approval is valid until: **19 March 2017**

Place and Date of Issue
Navi Mumbai, 29 April 2016

Stamp of the issuing body

Name of the authorised person

On Behalf of the Managing Director
Mrs. Sayali Kulkarni- Certifier






This letter of approval replaces previous issued [on dated 19/ 03/ 2016].

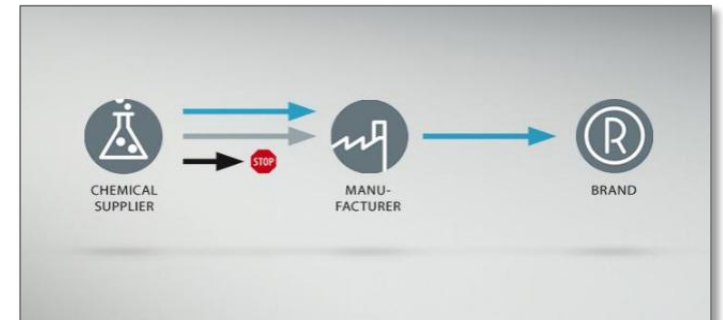
The issuing body can withdraw this letter of approval before it expires if the declared approval is no longer guaranteed.

The company for which the inputs have been assessed remains responsible for the correctness and completeness of the provided data as well as for the continued compliance with the applicable criteria of GOTS. Relevant information on any of the approved inputs, of which knowledge has been obtained after this approval letter has been issued, must be forwarded to the issuing body without delay.

Accredited by: International Organic Accreditation Services (IOAS), Accreditation No. 81

bluesign® technologies ag

- Input Stream Management approach
- A conformance assurance in the textile value/supply chain:
 -  Chemical products are entered and “homologated” into the bluesign® blue tool
 -  Products in the bluesign® blue tool are seen by the **textile mill system partners** in the bluesign® blue finder
 -  Bluesign® approved fabrics are seen by **brand system partners** in the bluesign ® blue guide
- Increasing presence and acceptance by associations and brands
- Best available techniques will be able to be measured with a web-based blue pert tool – built from



Confidence in Product Positive Lists

**A RELEVANT tool for our changing
environment**

- Archroma positive list available for direct communication to textile mills – a marketing opportunity
- A list of our TOTAL product portfolio that conform to a MRSL or RSL requirement
- Strategic FOCUS – a Predefined Brand list
- CLEAR communication – simple to understand
- CATEGORIZED according to the brand/standard
- ACCESSIBLE:
 - By Archroma – Touchpoint
 - By our customers - Internet
- A VALUABLE marketing tool to engage customers



PROCESS AUXILIARIES				
Dyeing, continuous application	Suitability for Oeko-Tex® Standard 100			
	Class I	Class II	Class III	Class IV
Dissol M.J liq	■	■	■	■ (1)
Emigen® DPR liq	■	■	■	■ (1)
Emigen® DPR, ID liq 120	■	■	■	■
Leonil® D-AIR liq	■	■	■	■ (1)
Leonil® EHC liq c	■	■	■	■ (1)
Leonil® NP liq	■	■	■	■

SUSTAINABILITY	
> ONE WAY (brochure)	Download
> Textile Specialties Additional Formulation List - ZDHC MRSL 2014	Download
> Textile Specialties Additional Positive List - Global Organic Textile Standard Version 4	Download
> Textile Specialties Formulation List - Oekotex (Sept 2015)	Download
> Textile Specialties Formulation List - ZDHC MRSL 2014	Download
> Textile Specialties Positive List - Adidas	Download
> Textile Specialties Positive List - BSSL Version 5	Download
> Textile Specialties Positive List - Burberry PRSL and MRSL (Oct 2014)	Download
> Textile Specialties Positive List - Global Organic Textile Standard Version 4	Download
> Textile Specialties Positive List - Prada	Download
> Textile Specialties Positive List - Valentino	Download
> Textile Specialties Positive List - CA (1 August 2014)	Download

A woman with long dark hair, wearing a black patterned top, stands in the rain holding a white umbrella. Raindrops are falling around her, and she is looking towards the camera with a slight smile. The background is a blurred green foliage.

**Archroma. A recognized
commitment to sustainability.**

“We touch and color people’s lives
every day, everywhere.”



Thanks

!