

DYE AND CHEMICAL SELECTION



MATTIAS BODIN

H & M HENNES & MAURITZ AB

Quality Assurance Manager, Bangladesh

adidas
GROUP



GAP

STOKER



PUMA



TESCO

ANN TAYLOR
STORES CORPORATION

H&M

new balance

Phylmar Group

Environmental
Health & Safety
Social Responsibility

s.Oliver

Timberland

1

CONTENTS

Why do failures occur?

How to avoid failures?

-Examples

Why avoid failures?



ANN TAYLOR
STORES CORPORATION

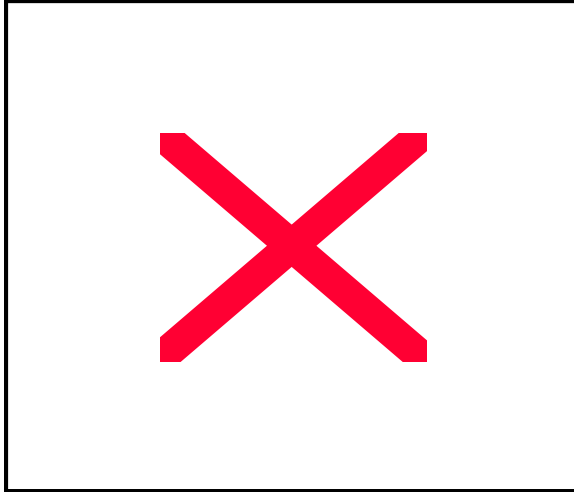


Phylmar Group
Environmental
Health & Safety
Social Responsibility

s.Oliver



WHY DO FAILURES OCCUR?



Is it because of:

Bad luck?

Test problems?

} **NO!**

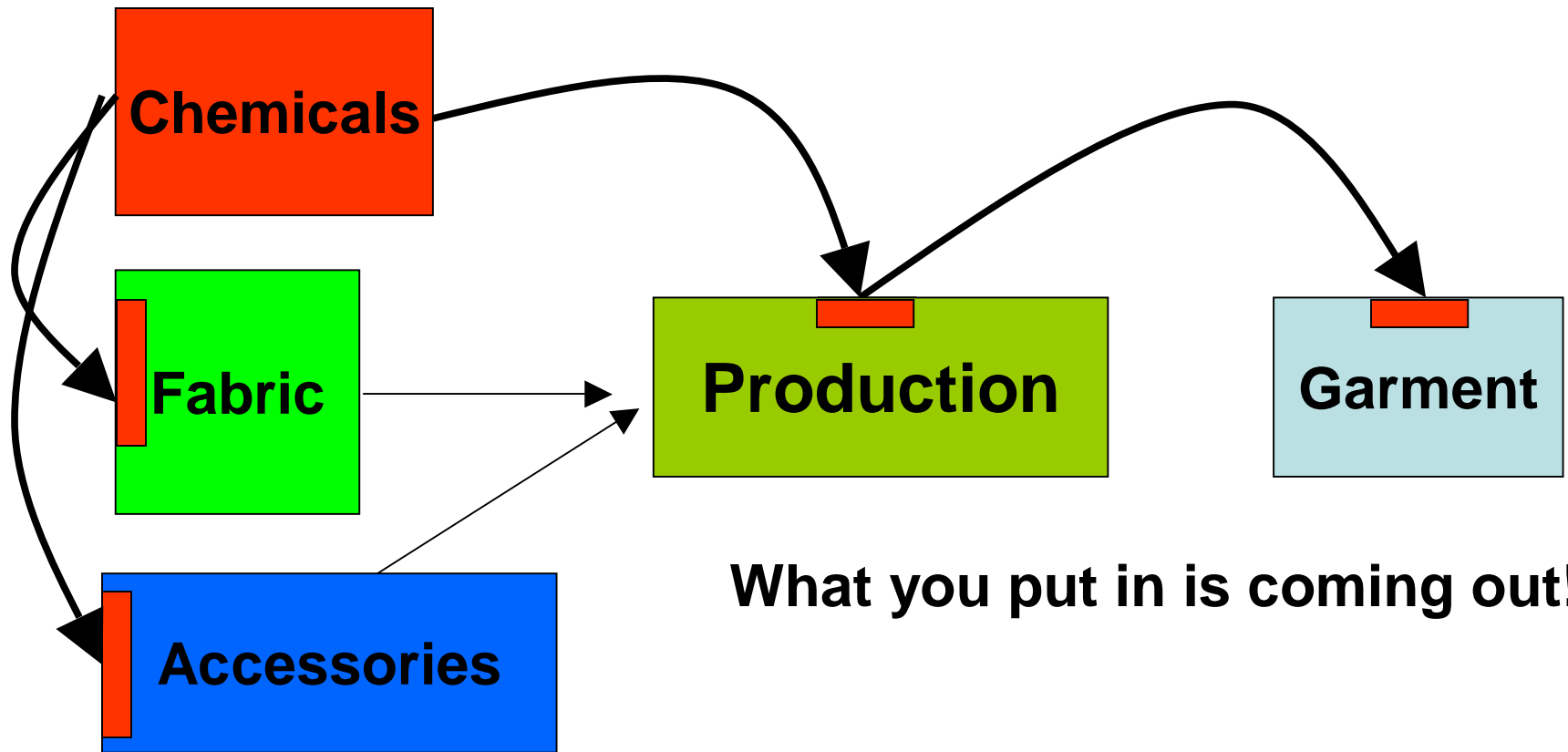
Restricted chemicals are used in production?

Incorrect processing?

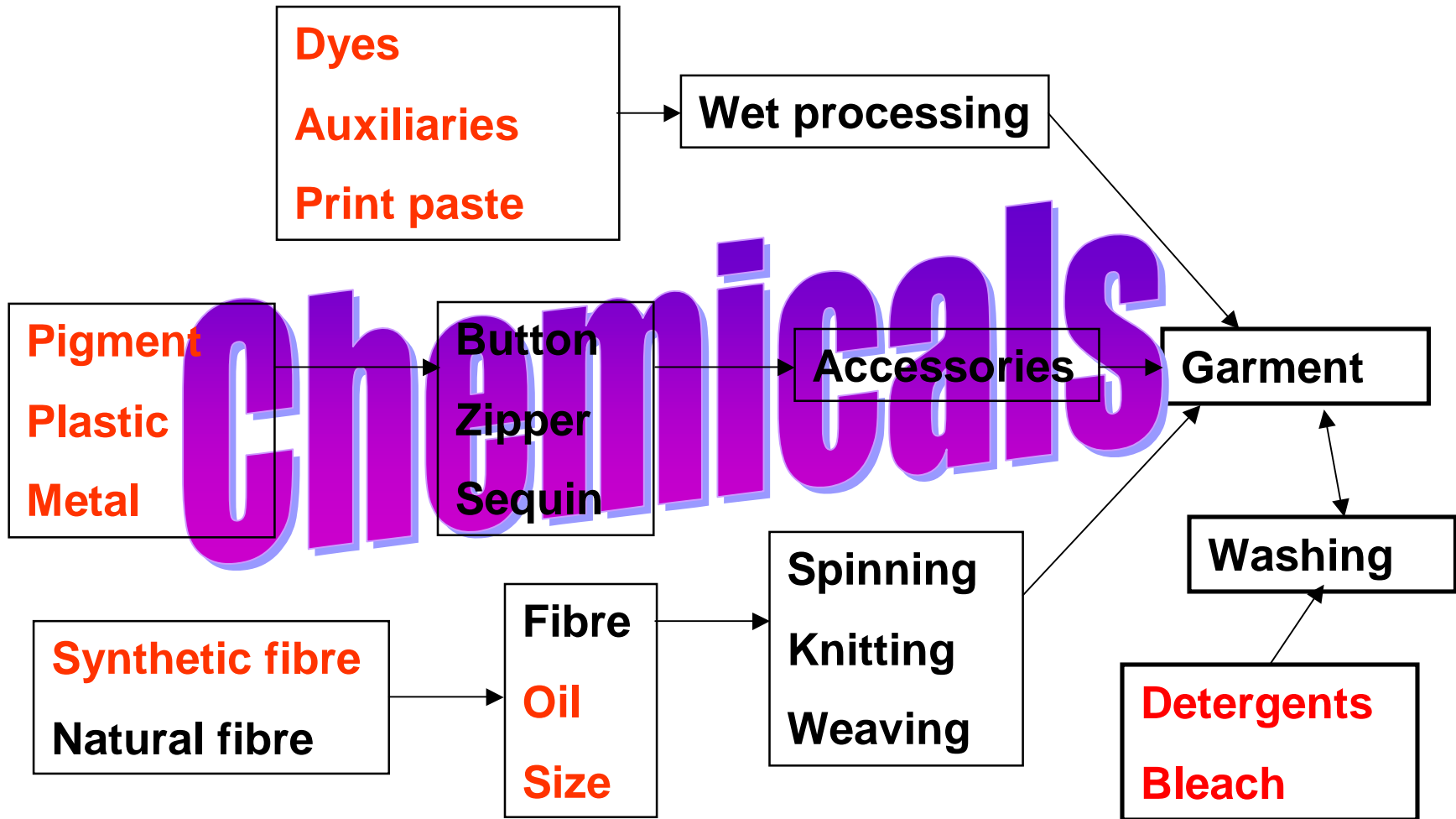
Contamination?

} **YES!**

PRODUCTION CONTROL



WHAT IS INSIDE THE PRODUCT?



WHO HAS THE INFORMATION?



Chemical companies must know what their products contain....

BUT, you need to ask!

If they don't know → don't use them

adidas
GROUP
ANN TAYLOR
STORES CORPORATION



H&M



Phylmar Group
Environmental
Health & Safety
Social Responsibility

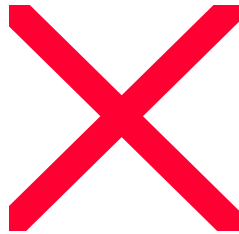


s.Oliver



Timberland

HOW TO SUCCEED?

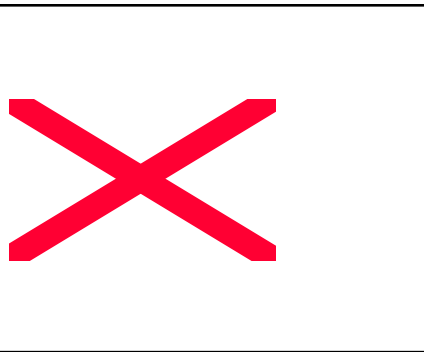


Now we know what's needed to avoid failures

So,

How do we do it?

What tools do we have?



HOW TO AVOID FAILURES?



Production control:

- 1) Communicate RSL
- 2) Record of chemical products used
- 3) Require necessary information about chemical products
- 4) Person responsible (chemist)

Test products/materials

adidas
GROUP
ANN TAYLOR
STORES CORPORATION



GAP

H&M

FORN
S

new balance



Phylmar Group
Environmental
Health & Safety
Social Responsibility

PUMA

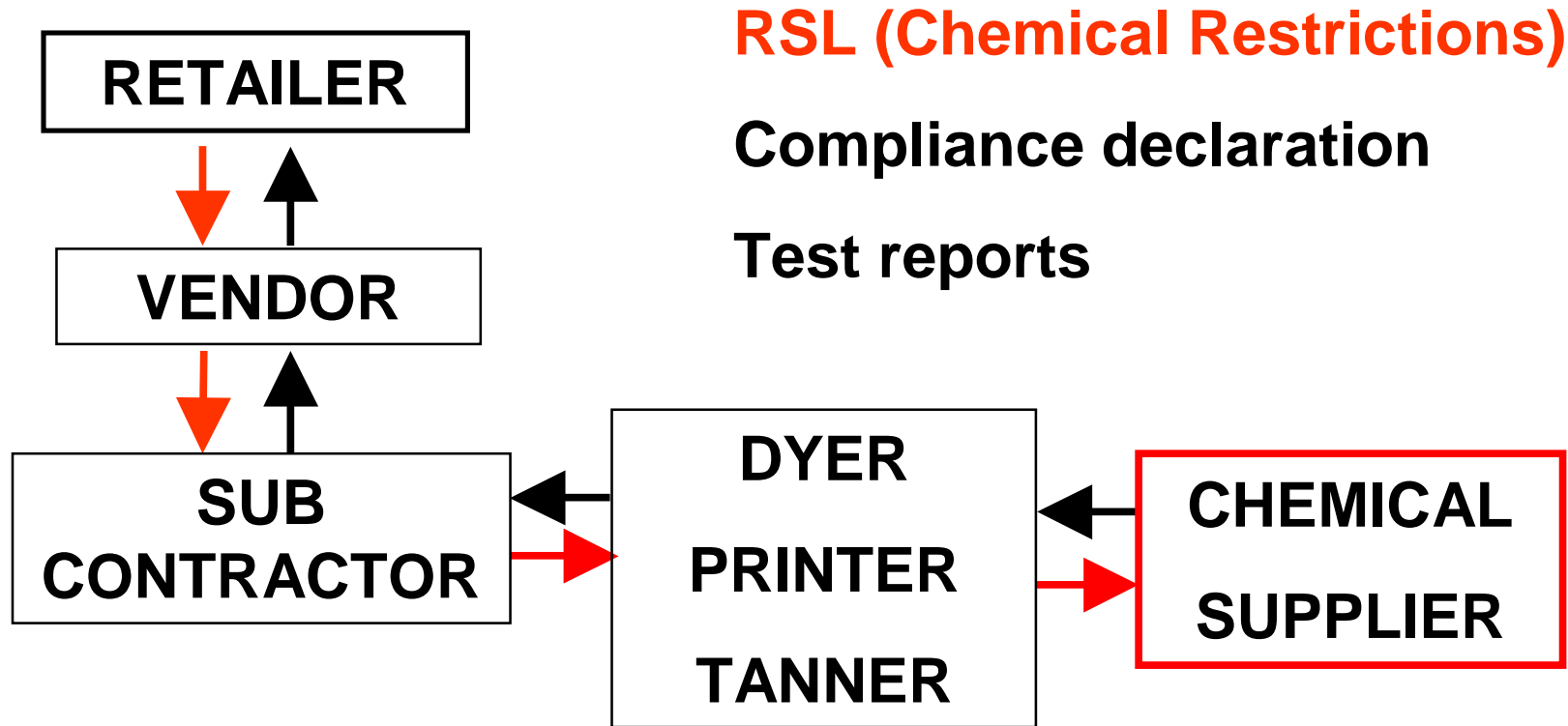


TESCO

s.Oliver

Timberland

COMMUNICATE RSL



NECESSARY INFORMATION



Require for all chemicals:

MSDS (Material Safety Data Sheet)

Compliance declaration to RSL

Labelled containers



What if Chemical Supplier:

Has no MSDS

Won't sign declaration

Needs to test

They don't know →

You cannot act responsibly →

Don't use it!



EXAMPLE 1 (BAD COMMUNICATION)

APEO in Cotton fabric:

Reason: Scouring agent contained
APEO

Action: Called chemical supplier and
asked for confirmation and
APEO-free alternative

Time needed: 5 min

Cost: almost nothing

**BUT nobody asked the question
before**



adidas
GROUP



GAP

FOR
S



PUMA



TESCO

ANN TAYLOR
STORES CORPORATION

H&M

new balance

Phylmar Group
Environmental
Health & Safety
Social Responsibility

s.Oliver

Timberland 11

EXAMPLE 2 (BAD COMMUNICATION)



Lead in Polyurethane (PU) fabric:

Reason: PU manufacturer received incomplete RSL from garment maker:

- PVC and phthalates only
- not heavy metals

Action: Give complete RSL

Time needed: 5 min

Cost: almost nothing

adidas
GROUP



GAP

FORN
S



PUMA



TESCO

ANN TAYLOR
STORES CORPORATION

H&M

new balance

Phylmar Group
Environmental
Health & Safety
Social Responsibility

s.Oliver

Timberland  12

EXAMPLE 3 (INCORRECT PROCESSING)



Formaldehyde in Cotton fabric with crinkle effect:

Reason: Too low curing temperature, and too short curing time

Consequences: Crinkle effect disappears after wash, and fabric contains high concentration of formaldehyde

Action: Follow chemical supplier's guidelines

adidas
GROUP
ANN TAYLOR
STORES CORPORATION



H&M

FORN'S

new balance



Phylmar Group. Environmental Health & Safety Social Responsibility

PUMA



TESCO

s.Oliver

Timberland 13

EXAMPLE 4 (CONTAMINATION)



Phthalate (DEHP) in print:

All print chemicals were phthalate-free

Reason: Spray glue was used on the print screen to keep the fabric in place

Consequences: Fabric got contaminated

Action: Called chemical supplier and asked for alternative glue

Time needed: 5 min

Cost: almost nothing

adidas
GROUP



GAP

John's



PUMA



TESCO

ANN TAYLOR
STORES CORPORATION

H&M

new balance

Phylmar Group
Environmental
Health & Safety
Social Responsibility

s.Oliver

Timberland 14

WHY AVOID FAILURES?



Cost avoidance due to:

No cancelled orders

No delays

Time saving (less testing)

Better:

- Environment
- Working conditions
- Quality
- **Product**
- **Trust**

adidas
GROUP
ANN TAYLOR
STORES CORPORATION



H&M



Phylmar Group

Environmental
Health & Safety
Social Responsibility



s.Oliver



Timberland  15

SUMMARY

Communicate

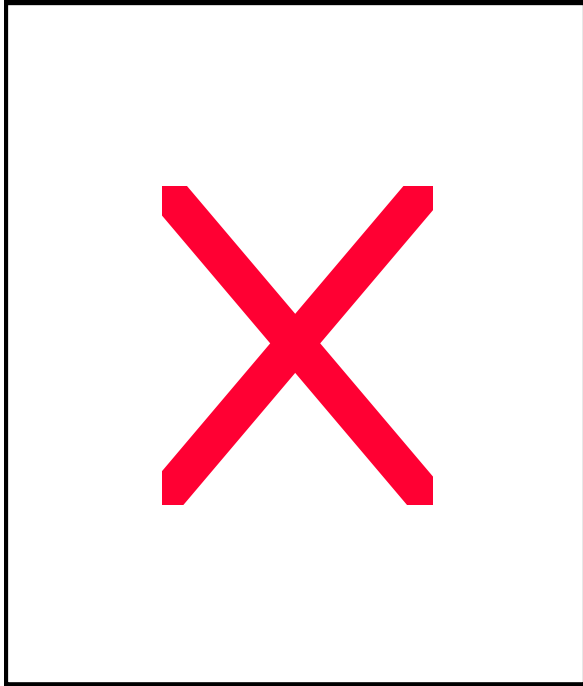
Know your production

Require information

Avoid contamination

Use correct processing

Test



adidas
GROUP
ANN TAYLOR
STORES CORPORATION



H&M



Phylmar Group
Environmental
Health & Safety
Social Responsibility



s.Oliver



Timberland  16