Sources of Failure

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Recap……

By now you have……

Gained an understanding of common principles

Seen why we have RSL’s

Seen some chemicals we control

Seen the consequences of failure
<table>
<thead>
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<th>Sources of Restricted Chemicals</th>
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<tbody>
<tr>
<td>Raw Fibre, Ecru Yarns, Greige Fabric, Undyed Hides</td>
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<tr>
<td>Dyes and Chemicals</td>
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<td>Ancillary Chemicals</td>
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<td>Poor Process control</td>
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1 Fibre, Yarn, Fabric and Animal Hides

Never Assume it’s clean….e.g.

- Most silk contains APEO
- Cotton and wool may contain pesticides
- Some process oils are carcinogenic

Always verify your raw materials

- Know what you bring in
- Know what you put on
- Know what you send out
Most failures are due to dyes and chemicals that are:

- Harmful themselves
- Used improperly
- Contain significant concentrations of harmful chemicals
Someone Knows What’s in the Drum!

Good suppliers know what’s there (and should tell you)

MSDS essential....

But many have incomplete information

Many RSL failures due to non-deliberate application

Some companies don’t provide MSDS!
Chemical Management Risks

Unspecified chemicals in a formulation
Unlabelled drums in the store
Unlabelled buckets by the machine
..All a risk to our customers and your workers
What are you using to:

- Clean the machines?
- Clean the floors?
- Lubricate the machines?
- Polish the tables?
- Wrap the finished product?
- Remove stains?
4 Inadequate Process Control

Dyeing and Finishing processes are chemical reactions

Poorly controlled reactions = Risk

Reactions are controlled by...

- Ratio of reagents
- Temperature
- pH
- Time
Common Control Issues

- Inaccurate weighing and dispensing
- Poor temperature control
- Poor pH control
- Poor humidity control
- No written Standard Operating Procedures
- Unlabelled chemicals
And now the Good News

You’ve seen the sources of failure

Now we will share information on testing.