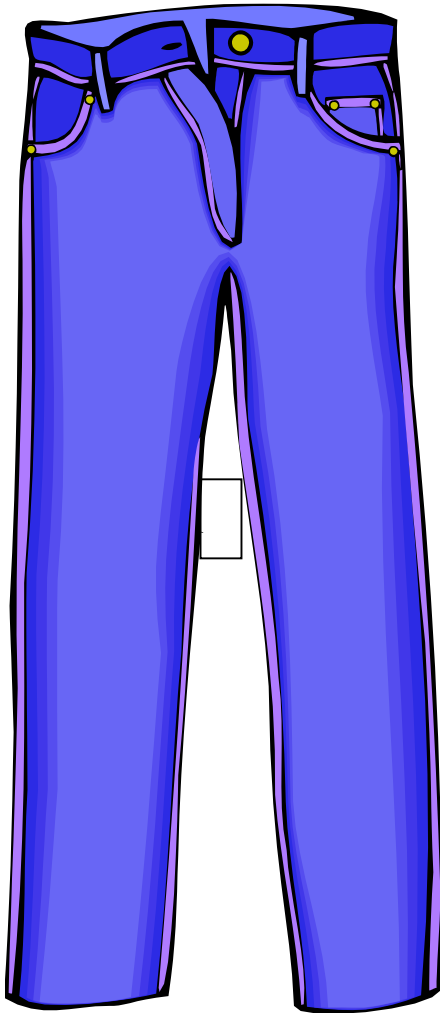


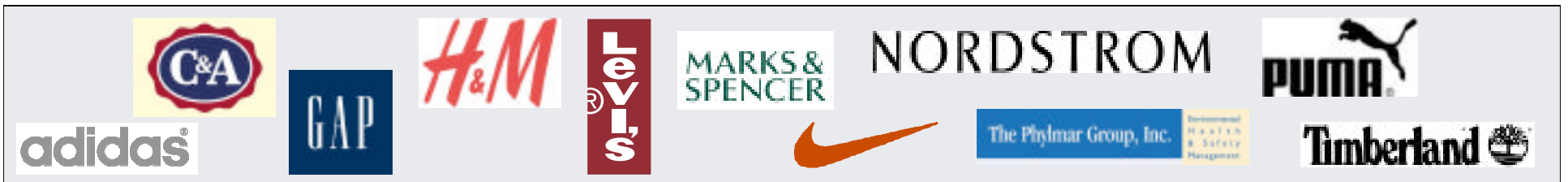
RSLs – What and Why?



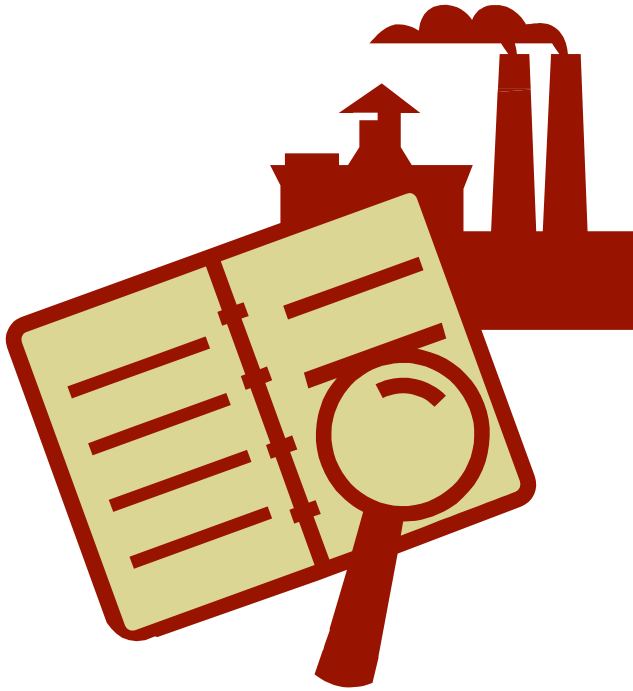
Sean Cady

Levi Strauss & Co.

- **Legislation**
- **Non-Governmental Organization**
- **Health and Environment**



What is an RSL? Why?



Chemical substances either:

- Prohibited from use
 - Limited in the product
 - Restricted in manufacturing
-
- Legislation
 - NGO
-
- Consumer / worker protection

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Chemicals



- **Critical for consumer products**
 - **Unique properties**
 - **Unique purpose**

- **Where does the chemical end up?**

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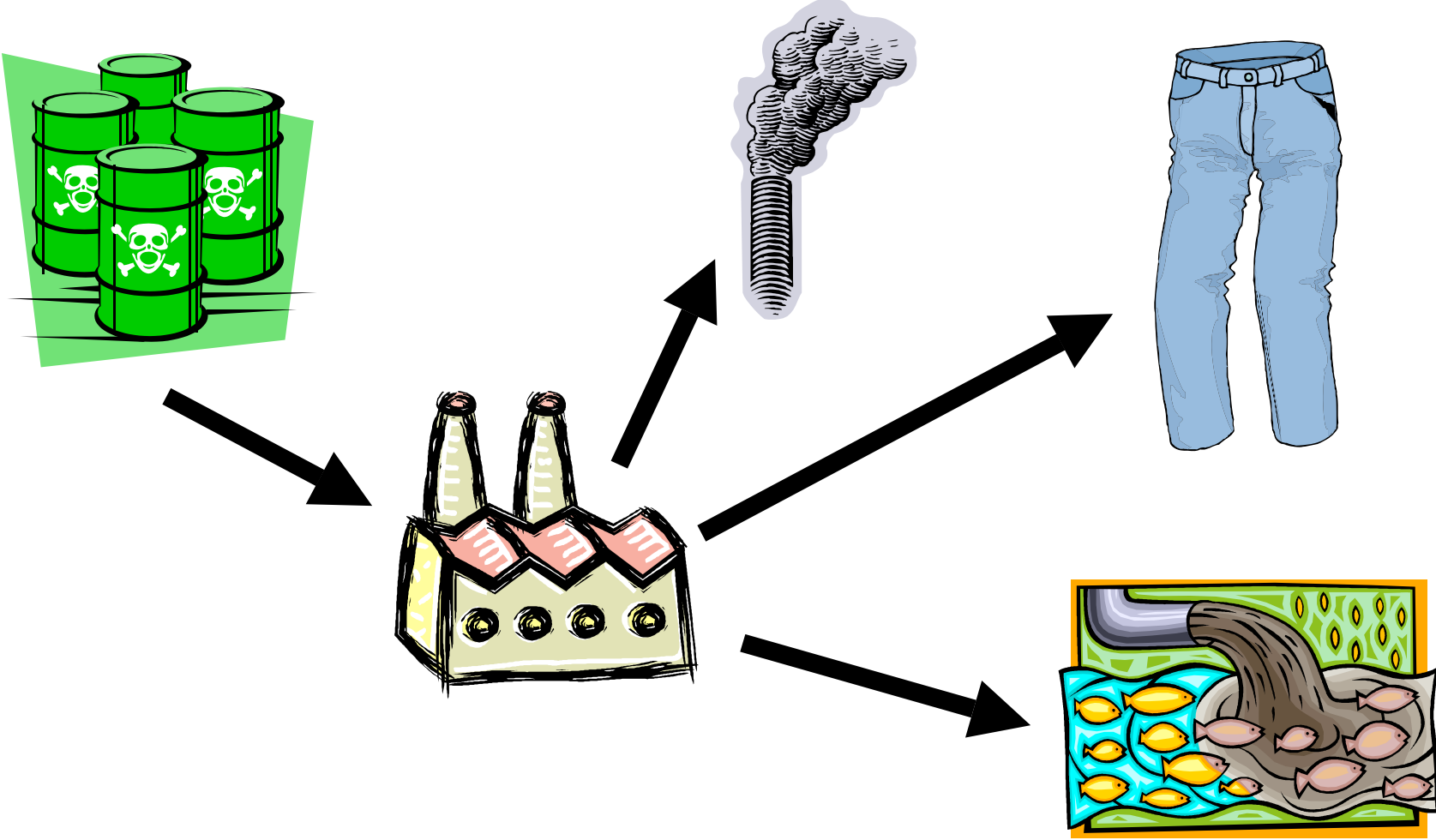
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End of Life



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Focus on Product



RSL Focus

- Chemical on product
 - Day
 - Night
- Direct skin contact

Why?

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Important?

Why is an RSL Important?



- Product safety
- Responsibility
- Comply with legislation
- Brand image

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Legislation



Formaldehyde

- **China, Japan, Russia, South Korea, EU Countries**

Limit for product:

Indirect: 150 ppm

Direct: 75 ppm

Baby: 20 ppm *

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Non-Governmental Organizations

Oeko-Tex



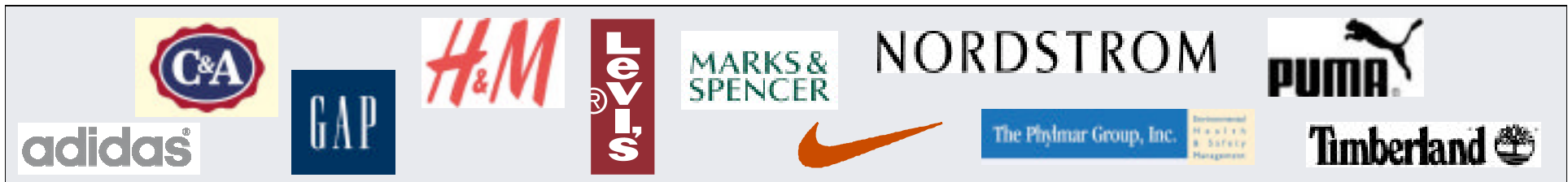
More restrictive on dyes

- **Azo amines: 2 more than EU**
- **Disperse dyes: 12 more than EU**



ÖKO-TEST

RICHTIG GUT LEBEN



Oeko-Test

Poisonous Cord



- Found: 408 ppm benzidine
- Law: 30 ppm

In the blue cord of a child's sweater, the quantities of aromatic amines were so high that it should not be sold.

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GAP

H&M

Joy's

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PUMA

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Consumer Protection

Types of consumer reactions:

- Skin irritation
- Sensitization
- Cancer
- Respiratory irritation

Dyes, Resins, Solvents



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Environmental Protection

Chemicals into environment:

Air

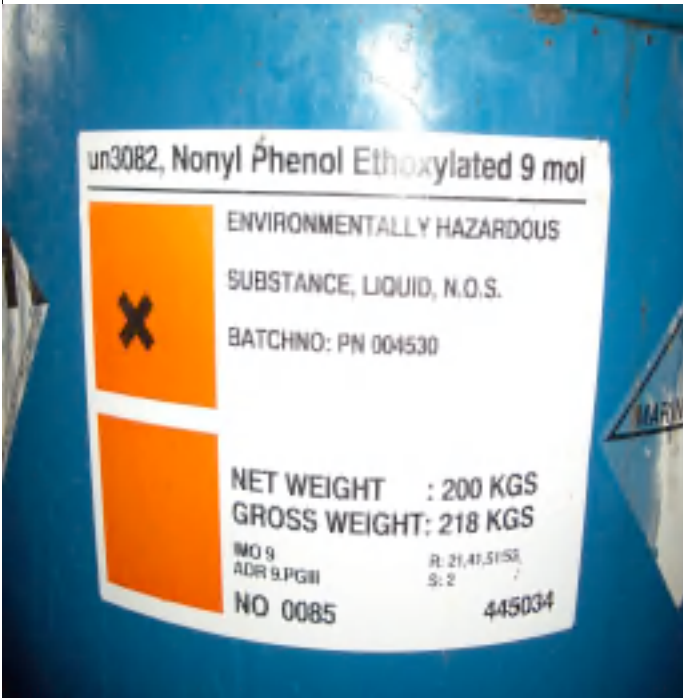
Water

Soil

- APEOs

- Dyes

- Flame Retardants



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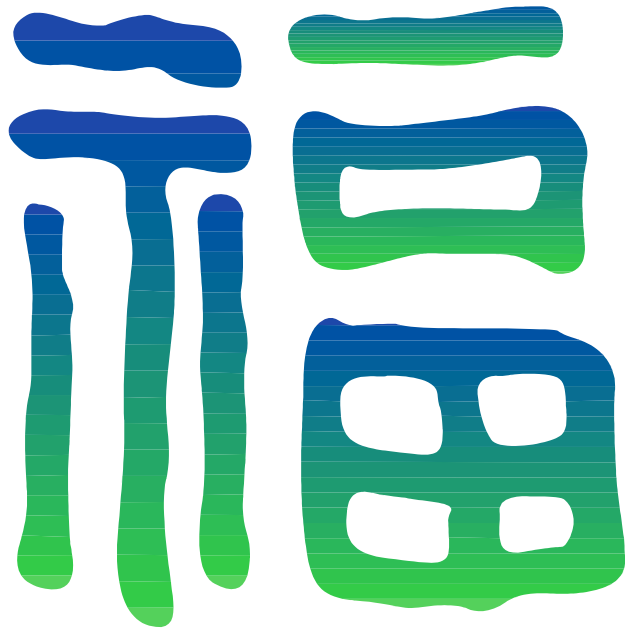


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Summary

RSLs Help To:

- Comply with the law
- Protect the consumer
- Protect the environment
 - Meet NGO concerns
 - Protect business



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