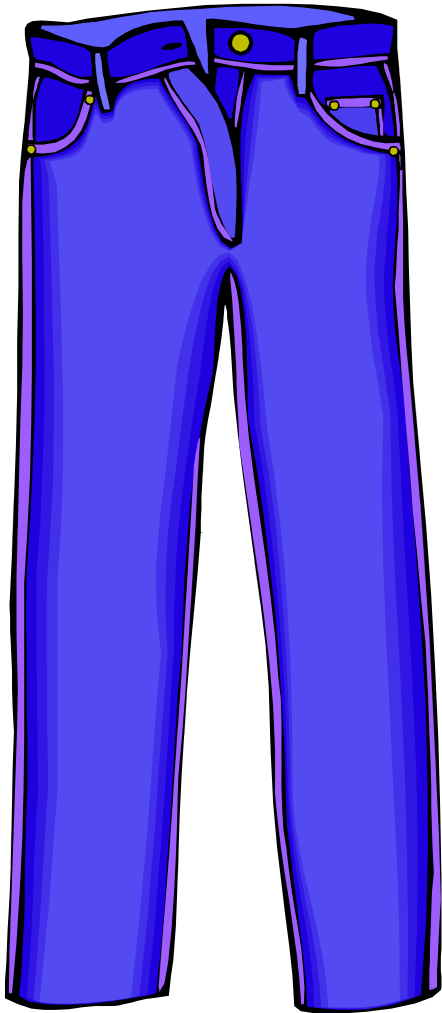


# RSLs – What and Why?



**Sean Cady**  
**Levi Strauss & Co.**

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

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# What is an RSL? Why?



## Chemical substances either:

- Prohibited from use
- Limited in the product
- Restricted in manufacturing

## Legislation

- NGO
- Consumer / worker protection
- Environmental protection

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# Chemicals



- **Critical for consumer products**
  - **Unique properties**
  - **Unique purpose**
- **Where does the chemical end up?**

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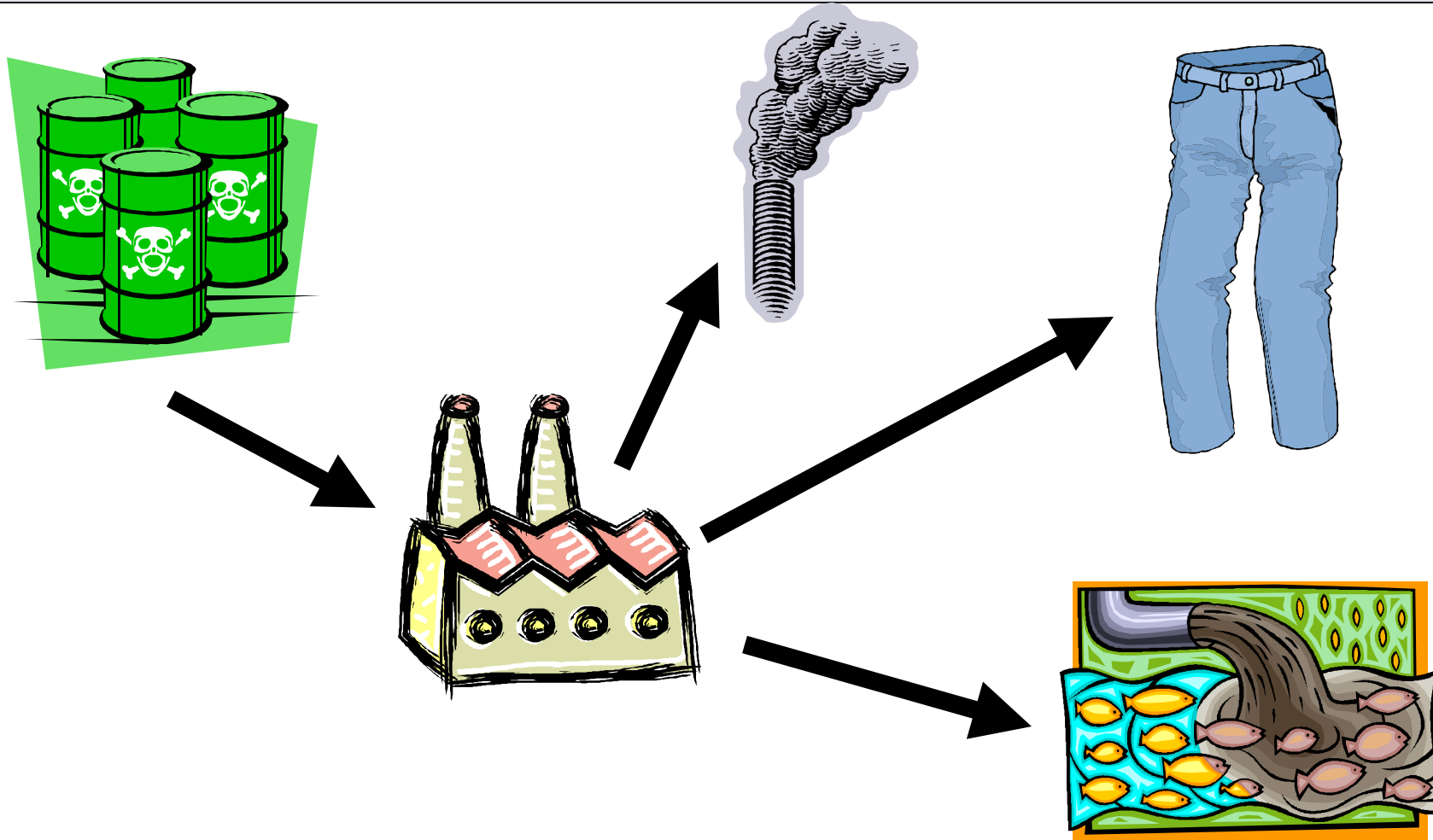


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# End of Life



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# Focus on Product



## RSL Focus

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

# Important?

## Why is an RSL Important?



- Product safety
- Responsibility
- Comply with legislation
  - Brand image
- Right thing to do

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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 than many legal requirements

- 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.

Put in another presentation



# Consumer Protection

## Types of consumer reactions:

- Skin irritation
- Sensitization
- Cancer
- Respiratory irritation

Dyes, Finishes, Solvents



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# Environmental Protection

## Chemicals into environment:

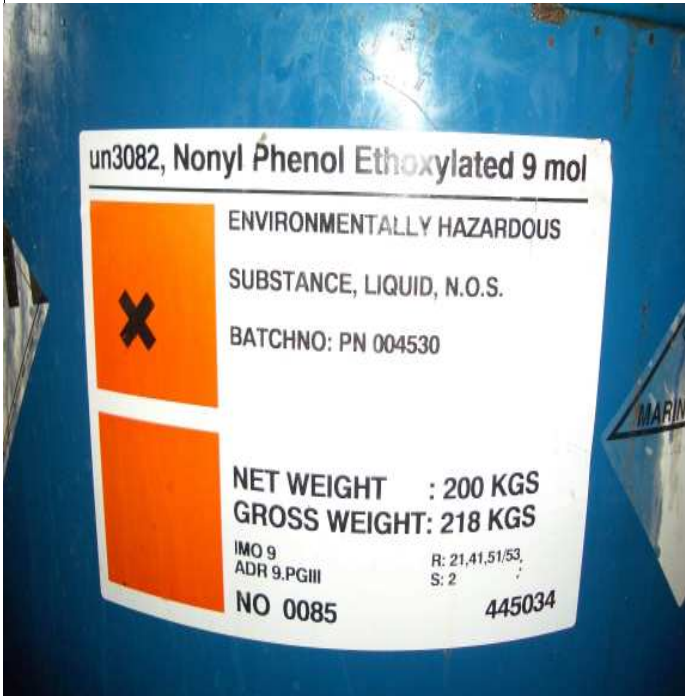
Air

Water

Soil

## Examples:

- APEOs
- Dyes
- Heavy metals



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# Summary

## RSLs Help To:

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

THANK YOU

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