

Chemical Categories

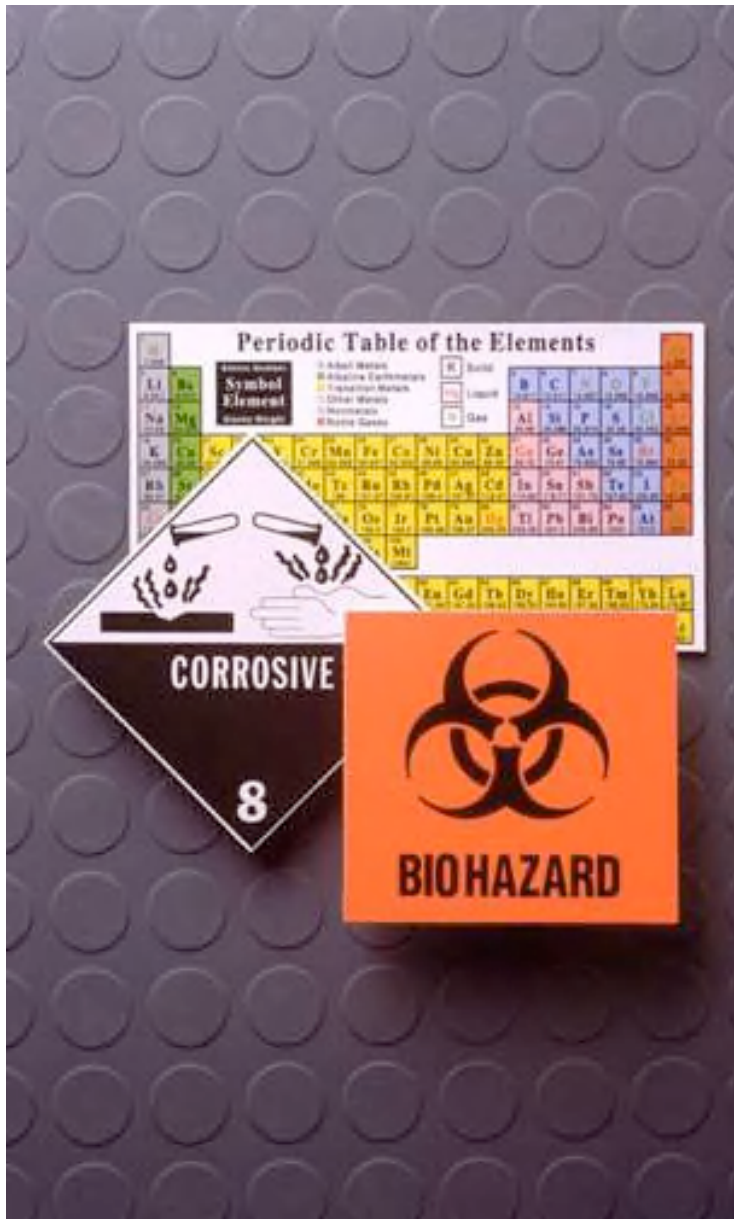
Chemical Categories and Classification Schemes

by

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Chemical Categories

Where are substances classified by law?

- European directives e.g. EN71 (Toy Safety), RoHS (Electricals)
- German Chemicals Act
- Japanese law
- California Proposition 65
- Food & Commodities Law (LMBG)
- Other national laws



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Chemical Categories

What are the consumer classification schemes?

- Oekotex 100
- SG Label
- TUV Toxproof
- ETAD
- WFSGI
- ...and others



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Chemical Categories

Other classification schemes?

- Stockholm Convention on Persistent Organic Pollutants
- Retailer RSLs
- Non Government Organisations



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Upcoming Classification Schemes

- REACH (European Chemicals Agency Resistration, Evaluation & Authorisation Scheme)
- US Environmental Protection Agency (decision on Fluorocarbons)
- California Proposition 65 to include Phthalates

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Chemical Categories

Some examples...

- Biocides
 - Dyes
 - Fluorocarbons
 - Heavy Metals
 - Phenols
 - Phthalates
 - Solvents
- and others....



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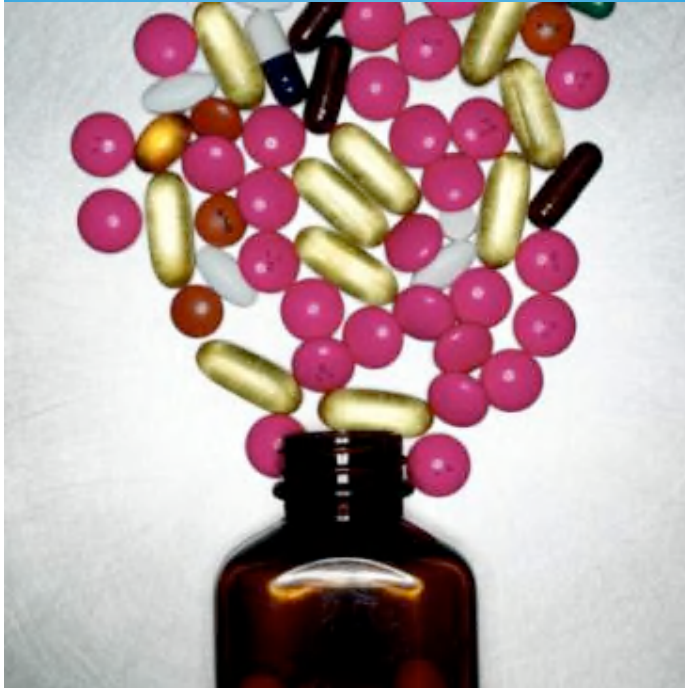
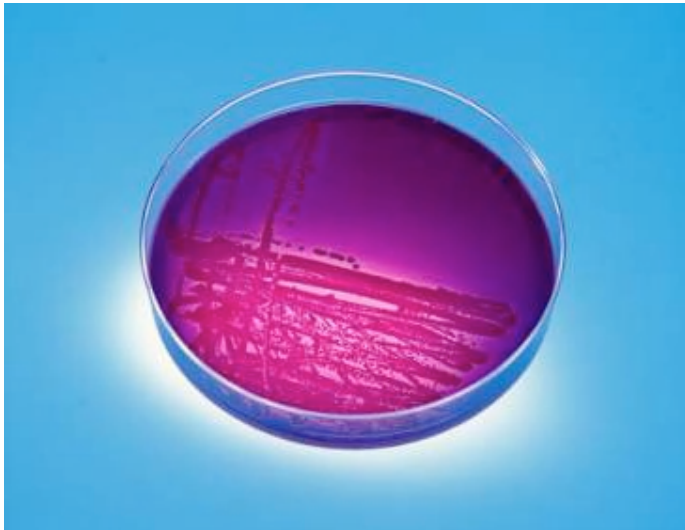
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Chemical Categories

Where are they found?

Biocides

- Antibacterial treatments such as Triclosan
- Associated with antibiotic resistance



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Where are they found?

Restricted dyes

- **Certain Azo Dyes which cleave to form restricted amines in natural fibres & leather.**

- **Carcinogenic**

- **Certain Disperse Dyes in synthetic fibres.**

- **Skin sensitising**



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Chemical Categories

Where are they found?

Fluorocarbons

- 8 chain fluorocarbons
e.g. PFOS and their
building blocks e.g. PFOA
- Used in water, stain & oil
repellent finishes for
textiles & leather.
- Environmentally
persistent & suspected
health risks



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Chemical Categories

Where are they found?

Heavy Metals

- Such as Cadmium, Chromium VI, Lead, Mercury
- Heat stabilisers used in pigments, dyes & plastics.
- Toxic, bio-accumulative & environmentally persistent



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Chemical Categories

Where are they found?

Phenols

- Such as
Pentachlorophenol (PCP)
& Tetrachlorophenol (TeCP)
- Pesticides, fungicides & preservatives for crops, textiles & down.
- Toxic to the environment



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Where are they found?

Phthalates

- Softeners used in plastics, prints and trims
- Bioaccumulative & endocrine modulating
- Restricted for children under 3 years old



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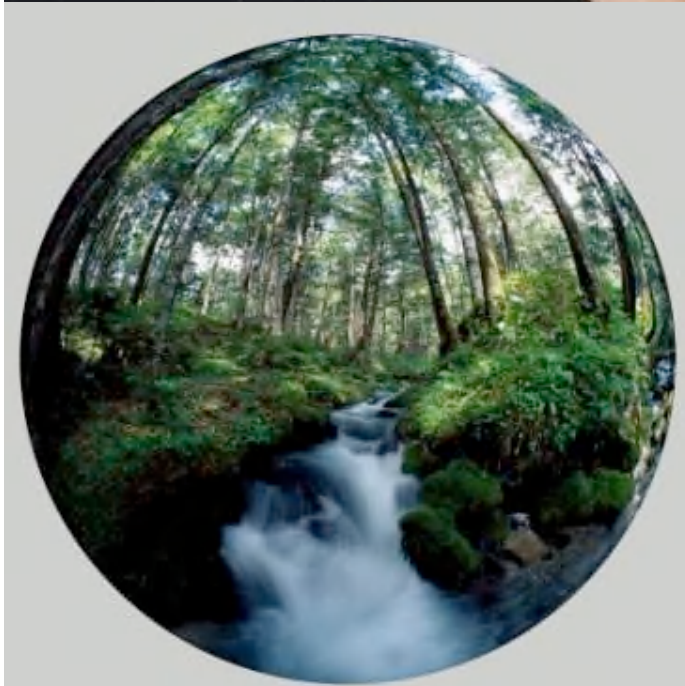
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Where are they found?

Solvents

- Found in cleaning agents, adhesives, dye carriers & print binders.
- Toxic & Ozone depleting



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