

Safer Chemicals and Environmentally Preferable Purchasing (EPP)

Joint UCB/USGBC Workshop: Driving Safer Design with Information and Policy February 20, 2014

Vanessa Lochner, EPP Director



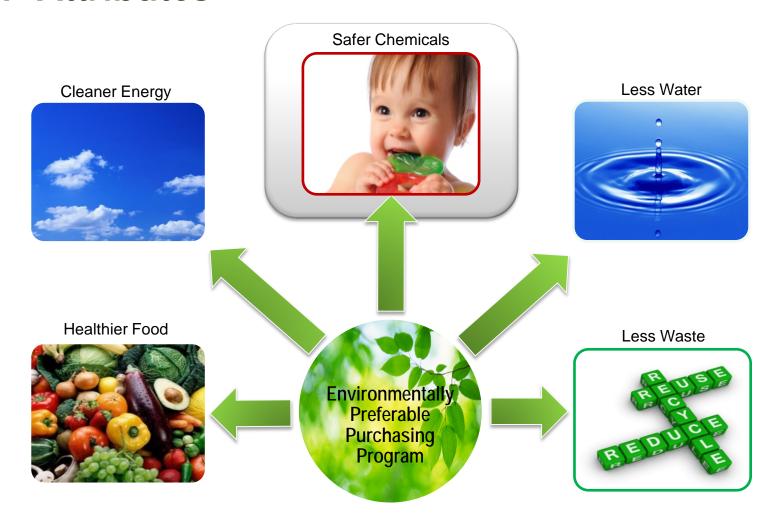
What is EPP?

Environmentally Preferable Purchasing (EPP)

 The purchase of products and services, the environmental impacts of which have been considered and found to be less damaging to the environment and human health when compared to competing products and services



EPP Attributes





Chemicals in Commerce

- Approximately 85,000 chemicals in United States commerce
- 2,000 new chemicals each year
- Few chemicals used by the industry are tested for safety, not required by regulation
- Only 5 chemicals have been banned or restricted by the EPA in 34 years



Medical Products

Exposure



Building Materials

Pesticide Use

Equipment and Furniture

Skin Care Products

Cleaners and disinfectants

Image Source: http://www.completesense.com/gkconcerns.html

- 1. World Resources Institutes, The 1994 Information Please Environmental Almanac
- 2. Lance A. Wallace, The Total Exposure Assessment Methodology (TEAM) Study: Summary and Analysis, Volume 1. Washington, DC. EPA, 1987.
- Same as above
- 4. Nancy Sokol Green, Poisoning Our Children (The Noble Press, 1991)



Harmful Effects on Human Health

- Hormone system damage
- Early pubescence

Product chemical additives and components



- Neurological disorders
- Decreased IQ

- Cancer
- Seizures

- Reproductive system disorder
- Birth defects

Source: http://www.noharm.org/lib/downloads/chemicals/Chemical_Contamination_Cost.pdf
European Commission

National Research Council

Mt. Sinai School of Medicine Center for Children's Health and the Environment
Environment Canada



What Part of Our Chronic Disease Problem Comes from Chemicals?

1%	of chronic disease*
3%	of developmental disabilities**
5%	of childhood cancer***
10%	of diabetes, Parkinson's Disease and neurodevelopmental disabilities****
30%	of childhood asthma***

Source: http://www.noharm.org/lib/downloads/chemicals/Chemical_Contamination_Cost.pdf



^{*}European Commission

^{**} National Research Council

^{***}Mt. Sinai School of Medicine Center for Children's Health and the Environment

^{****}Environment Canada

Kaiser Permanente Safer Chemical Strategies

- Environmentally Preferable Purchasing Policy
- Safer Chemicals Organizational Guideline
- Sustainability Scorecard for Medical Products
- Safer Chemicals Targeted Products



EPP Policy

History

In 2006, the EPP policy was created in support of Kaiser Permanente's mission to improve the health of our members and the communities we serve. The policy, which went into effect in May of 2006, requires that the principles of EPP be applied to all major purchasing decisions.

The EPP policy mandates the following specific environmental criteria for all purchasing decisions:

Avoid products containing:	Promote the purchase of:	Encourage suppliers to:
 Persistent bioaccumulative toxic (PBT) compounds Bisphenol-A (BPA) Carcinogens, mutagens and reproductive toxic chemicals Halogenated flame retardants Chlorine-containing flame retardants Latex Mercury Phthalates (e.g. plasticizer DEHP (di-2-ethylhexyl phthalate) Polyvinyl chloride (PVC) Volatile organic compounds (VOCs) and semi-volatile organic compounds 	 Building products, materials and furnishings that do not adversely impact indoor air quality Building products, materials and furnishings that are approved by National Facilities Services Planning & Standards Products with high post-consumer recycled content Products that are readily recycled, reprocessed, and/or reused Products that are latex-free Products that do not contain or contain a reduced amount of toxins Products that have "Take Back" provisions Paper products that are chlorine-free 	 Package units in minimal packaging that is recyclable, non toxic or bio-based Transport products with minimal packaging, move to bio-based packaging Manufacture products that use less energy and water during normal use Manufacture products that use less water and energy during manufacturing Manufacture products with attributes listed (i.e., chlorine-free, latex-free, non-toxic)



Organizational Guideline

Chemicals

To advance an economy where the production and use of chemicals are not harmful for humans as well as for our global environment and its non-human inhabitants, Kaiser Permanente adopts the following five guiding principles for chemicals:

- Understand product chemistry
 Assess and avoid hazards
- 3. Commit to continuous improvement4. Support specified industry standards5. Inform public policies



Kaiser Permanente Sustainability Scorecard for Medical Products

Corporate Level Questions

Corporate-level questions apply to your company's total performance. Including but not limited to headquarters, owned, operated, or leased manufacturing facilities, subsidiary manufacturing facilities, and partner manufacturing facilities.

(Answer Type)

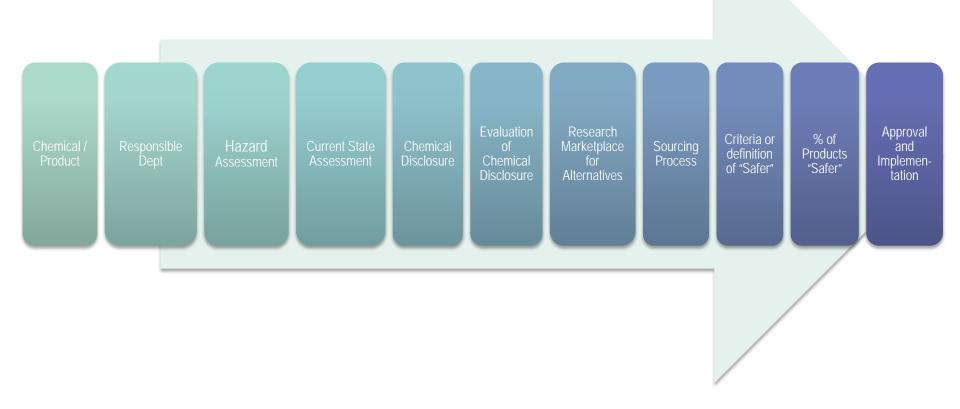
Does your company have an established environmentally preferable purchasing and supply chain program? If so, please describe. 3 Does your company have a goal to steadily increase employee access to local, sustainable food in your catelerias and vending areas? 4 Has your company published a sustainability preport? If yes, or how many years? 5 Do you participate in any public reporting, such as through the Global Reporting Initiative (GRI, www.globalreporting.org), Ceres, or similar programs? If yes, please list. 7 In the previous fiscal year (FV), what was the monetary value (in US dollars) of significant fines (including those currently under appeal), and total number of non-monetary sanctions, for non-compliance with local, national, or international environmental laws and regulations? 8 In the previous FV, what percent of total waste generated by your company and its subsidiaries was recycled or reused? 10 9 What percent of total weight or volume of manufacturing input material is recycled material? (Use GRI estimation methods to obtain answer) 10 Do you offer any end-of-life product take-back programs, including electronics? If so, please list all items you take back for responsible recycling, donation, or reuse, and outline the process for y/N, list participating in the program. 11 Do your internal and take-back recycling programs exclusively use qualified or certified e-Stewards (http://e-stewards.org/certification-overview/) to ensure proper handling of all electronic products and materials through final disposition? 12 Have you measured and taken steps to reduce your company and its subsidiaries greenhouse gas emissions (GHG)? For how many years? Have you opted to report your GHGs and climate y/N, # of years, Y/I have you measured and taken steps to reduce your company and its subsidiaries or internal use? (www.epeat.net) 12 Have you measured and taken steps to reduce your company and its subsidiaries on the male use? (www.epeat.net) 13 In the previous FY, what percent of energy your company a		1	Please attach your company's environmental or sustainability statement or policy.	Attachment
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publicly available or available through a third party?	<u> </u>	17	Do you have a commitment to know all of the chemical and material ingredients, above 100ppm, of products sold by your company and its subsidiaries in the United States? If yes, is the list	Y/N
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SKU-Level Questions

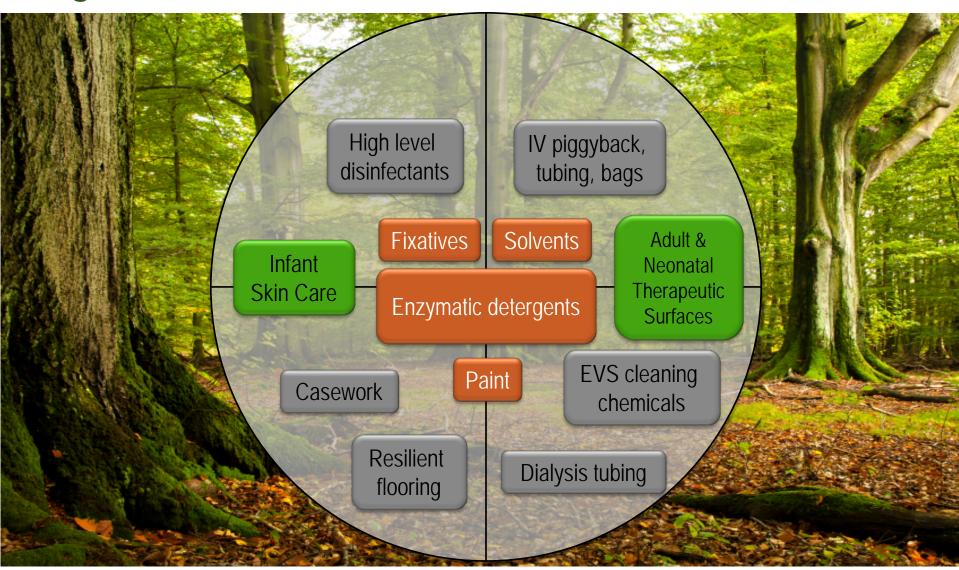
Input "1" for yes and "0" for no

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	T à
									(A)	(B)								
SKU	Product Name	Designed or sized for neonatal or pediatric applications	Free of intentionally added latex in any material touched by patients or practitioners	All homogenous electronic parts compliant with all EU RoHS Directive's restricted limits (excluding exemptions) ⁹	intentionally added Bisphenol	All homogenous materials contain less than 1000 ppm of bromine and chlorine- based compounds ³	Free of Polyvinyl Chloride	Free of any intentionally added phthalate, including DEHP ⁸	Free of any intentionally added California Prop 65 Chemical greater than threshold or warning level ⁷	If no to (A), List Chemical Abstracts Service (CAS) #'s (separated by ",")	Does not create OR become hazardous waste on its own or when aggregated ⁴	Free of intentionally added antimicrobial/ antibacterial agent ¹		packaging are labeled clearly		Primary Packaging - Contain more than 10% post- consumer recycled content	Secondary Packaging - Contain more than 30% post- consumer recycled content	Product code fi environi ally preferable alt.
	-	addle of		. All	h. Ami	- Anna Anna Anna Anna Anna Anna Anna Ann		11/12/12/12	1	A. A. William and S.	ABM,	2000 A				Andrea (A.M	

The Process



Targeted Products





Kaiser Permanente's

Implemented Successes

- Latex-free Exam Gloves
- Mercury-free Thermometers and Sphygs
- PVC-free Carpeting/resilient flooring
- Implemented Sustainability criteria for fabrics
- DEHP/PVC-free IV Bags and Tubing
- PVC-free and DEHP-free Split-Tip Chronic Dialysis Catheters





Challenges

- Availability of chemical information
 - Chemical ingredients
 - Hazards
- Greenwashing
- Alternatives
 - Safer alternative may not be available
 - Alternatives may not have been tested









Industry Movement







Thank you

Contact Information:

Vanessa Lochner Director, Environmentally Preferable Purchasing Kaiser Permanente (909) 282-2802

Vanessa.M.Lochner@kp.org

