



*PVC-free and BFR-free
Alternatives are Widely Available*

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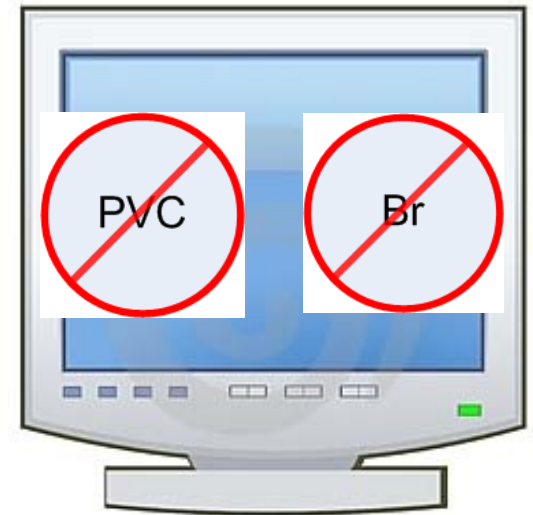


Products Containing Bromine/Chlorine



“Halogen”-free Electronics (bromine- and PVC-free)

- Chemicals
 - Bromine-free flame retardants
 - PVC-free materials
- Producers moving to halogen-free
 - Apple has done it
 - Dell, HP moving slowly
- Products under development
 - desktops, monitors, laptops,
 - TVs - bromine-free flame retardants in housings



Apple ...



- “The greatest challenge facing our industry today is the presence of arsenic, brominated flame retardants (BFRs), mercury, phthalates, and PVC in products. In keeping with our philosophy over the last decade, Apple is not waiting for legislation to ban these substances. ***Not only are we targeting BFRs and PVC, but we are also eliminating all forms of bromine and chlorine wherever technically possible.***”
- ***“BFR-free and PVC-free: Apple is on track to eliminate BFRs and PVC from all new product designs by end of 2008.”***



Arrow
International -
silicone feeding tube



Utah Medical -
silicone/polyurethane
umbilical vessel
catheter



B Braun -
polyolefin



Medex, Inc. -
polyethylene
admin sets



Multilayer Tubing
Natvar -
polyurethane



VIASYS - enteral
feeding



Hospira --
polyolefin

pvc-free
medical
devices

Resources

**Green Building:
Alternatives
to Polyvinyl
Chloride (PVC)
Building
Materials for
Health Care**

**Alternatives*
to Polyvinyl
Chloride (PVC)
and
Di(2-Ethylhexyl)
Phthalate (DEHP)
Medical Devices**

Products detailed in this publication include:

Accessories - NICU

- armbands
- eye shields

Feeding Tubes and
Accessories

- gastrostomy tubes

Respiratory Therapy
Products

- Berman airways



Bedding and Padding
Products

Blood Pressure Cuffs

Gloves, Examination

Gloves, Surgical

- oxygen hoods
- sleep apnea tubes
- tracheostomy tubes
- transtracheal oxygen catheter

Progress Towards PVC¹ and BFR² Elimination by Leading Electronic Manufacturers Selling Products in the US (February 2008)

Manufacturers	DecaBDE removed from current products	Goal of partial BFR and PVC elimination	Goal of Complete BFR elimination	Goal of complete PVC elimination
Apple ³	√	√	by 2008	by 2008
Dell ⁴	√			
Lenovo ⁵	√			

www.cleanproduction.org

Taking Action

Health Care Institutions Undertaking Efforts to Reduce Polyvinyl Chloride (PVC) and/or Di(2-Ethylhexyl) Phthalate (DEHP)

<p>Memorial Hospital, Gton, PA</p> <p>Health Care System, is</p> <p>ain Medical Center, idelphia, PA</p> <p>'s Hospital, Hospital, St.</p> <p>ummit Medical ital. Berkeley, CA</p>	<p>C Children's Hospital and Research Center at Oakland, Hospital, Oakland, CA</p> <p>C Children's Hospital and Regional Medical Center, Seattle, Hospital, Seattle, WA</p> <p>C Community Hospital of San Bernadino, CHW, Hospital, San Bernadino, CA</p> <p>C Consorta, Inc. GPO, Chicago, IL</p>	<p>H Hahnemann University Hospital, Hahnemann University Hospital, Hospital, Philadelphia, PA</p> <p>H Hayward Medical Center, Kaiser Permanente, Hospital, Hayward, CA</p> <p>H Hospital of the University of Pennsylvania, Hospital, Philadelphia, PA</p>	<p>M Mercy Medical Center, Merced Community Campus, CHW, Hospital, Merced, CA</p> <p>M Mercy Medical Center, Merced Dominican Campus, CHW, Hospital, Merced, CA</p> <p>M Mercy Medical Center Mt. Shasta, CHW, Hospital, Mt. Shasta, CA</p> <p>M Mercy Medical Center Redding, CHW, Hospital, Redding, CA</p> <p>M Mercy San Juan Medical Center, CHW, Hospital, Carmichael, CA</p>	<p>P Panorama City Medical Center, Kaiser Permanente, Hospital, Panorama City, CA</p> <p>P Paoli Memorial Hospital, Hospital, Paoli, PA</p> <p>P Pennsylvania Hospital, Hospital, Philadelphia, PA</p> <p>P Premier, GPO, Charlotte, NC</p>	<p>S Saint Joseph's Hospital and Medical Center, CHW, Hospital, Phoenix, AZ</p> <p>S Saint Joseph Medical Center, Hospital, Tacoma, WA</p> <p>S Saint Joseph's Medical Center, CHW, Hospital, Stockton, CA</p> <p>S Saint Joseph Mercy Health System, Hospital, Ann Arbor, MI</p> <p>S Saint Mary Medical Center, CHW,</p>	<p>South Bay Permanen</p> <p>South Sac Center, Ki Hospital, Si</p> <p>South San Center, Ki Hospital, Si</p> <p>Sparrow & Lansing, M</p> <p>nyside nanen</p>
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www.noharm.org

Endorsers

Ascension Health
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 Consorta, Inc.
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 HIGPA
 Hospital Sisters Health System
 Kaiser Permanente
 MedAssets
 Novation
 Practice Greenhealth
 Premier Inc.
 St. Joseph Health System



Environmentally Preferable Purchasing (EPP) Guidance Document for Health Care

www.globalhealthsafety.org

What we buy matters. By selectively choosing the products health care purchases we can generate demand for inherently safer products and services for patients, workers, and the