





UNINTENDED CONSEQUENCESU.S.industries'release oftoxicchemicalsin 1999increasedby 5%,totaling7.7 billionpounds.

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Buildings' Human Toll







<image><text><text><text>



Boston Dept. of Neighborhood Development





WHAT'S IMPORTANT

- -Impact to human health & benefits
- –Impact to environment & benefits
- -Performance / durability
- -Cost: first cost and O&M
- -Availability: quantity & on time
- -Special Skills Required to do it right







WOOD

- Specify Reclaimed
- Specify FSC-Certified Wood from Regional
- Specify Wood-Free
- Avoid particleboard, plywood, MDF with formaldehyde & fibers from unsustainable



CEMENT & CONCRETE

- Cement kilns release ~
- portland cement, i.e.,
- industrial by-products

STEEL

• High recycled content steel, >95% postconsumer scrap, manufactured in regional electric arc furnaces used for structural & other applications







GREEN SEAL PAINTS Prohibited Ingredients

- TOXIC ORGANIC SUBSTANCES
 - Acrolein
 - Acrylonitrile
 - Benzene
 - 1,2-dichlorobenzene
 - Ethylbenzene
 - Butyl benzyl phthalate
 - Formaldehyde

- Isophorone
- Methylene chloride
- Methyl ethyl ketone
- Methyl isobutyl ketone
- Naphthalene
- Phthalate esters
- 1,1,1-trichloroethane
- Toluene
- Vinyl Chloride

PVC: Miracle Plastic

- Strong & durable
- Rigid or flexible Opaque or clear



- Abrasion & moisture resistant
- Rust and corrosion resistant
- Electrically non-conductive







Mossville, Louisiana

• 91% ear, nose, throat

PVC – Toxic in Use

Flexible PVC:

Plasticizers:Phthalates (DEHP) Up to 60% by weight Triggers asthma attacks

Rigid PVC:

Heavy Metals: Lead damages brain development; Cadmium neurological damage, cancer; Organotins Suppress immunity, disrupt endocrine system damage reproductive

development







Why not recycle PVC?

Impossible brew

too many additives (heavy metals, plasticizers)

Only down-cycling

drink bottle ->speed bumps

< 1% of N.A. vinyl production is down-cycled

Am Assoc of Postconsumer Plastics Recyclers gave up









Safer Alternatives

- Specify naturally resistant wood or other materials
- Specify wood treated with safer chemicals including ACQ (alkaline copper quaternary) manufactured by same companies as CCA



