

Extracting Chemical Data across the Supply Chain
**Downstream Pull with the
Health Product Declaration**

December 3, 2012
BizNGO Annual Meeting
Berkeley, CA

Tom Lent

Policy Director



EPA Chemicals of concern

- Phthalates
- PBDE flame retardant
- Perfluorinated chemicals
- Chlorinated paraffins
- Bisphenol A
- HBCD flame retardant



Where do we use them?

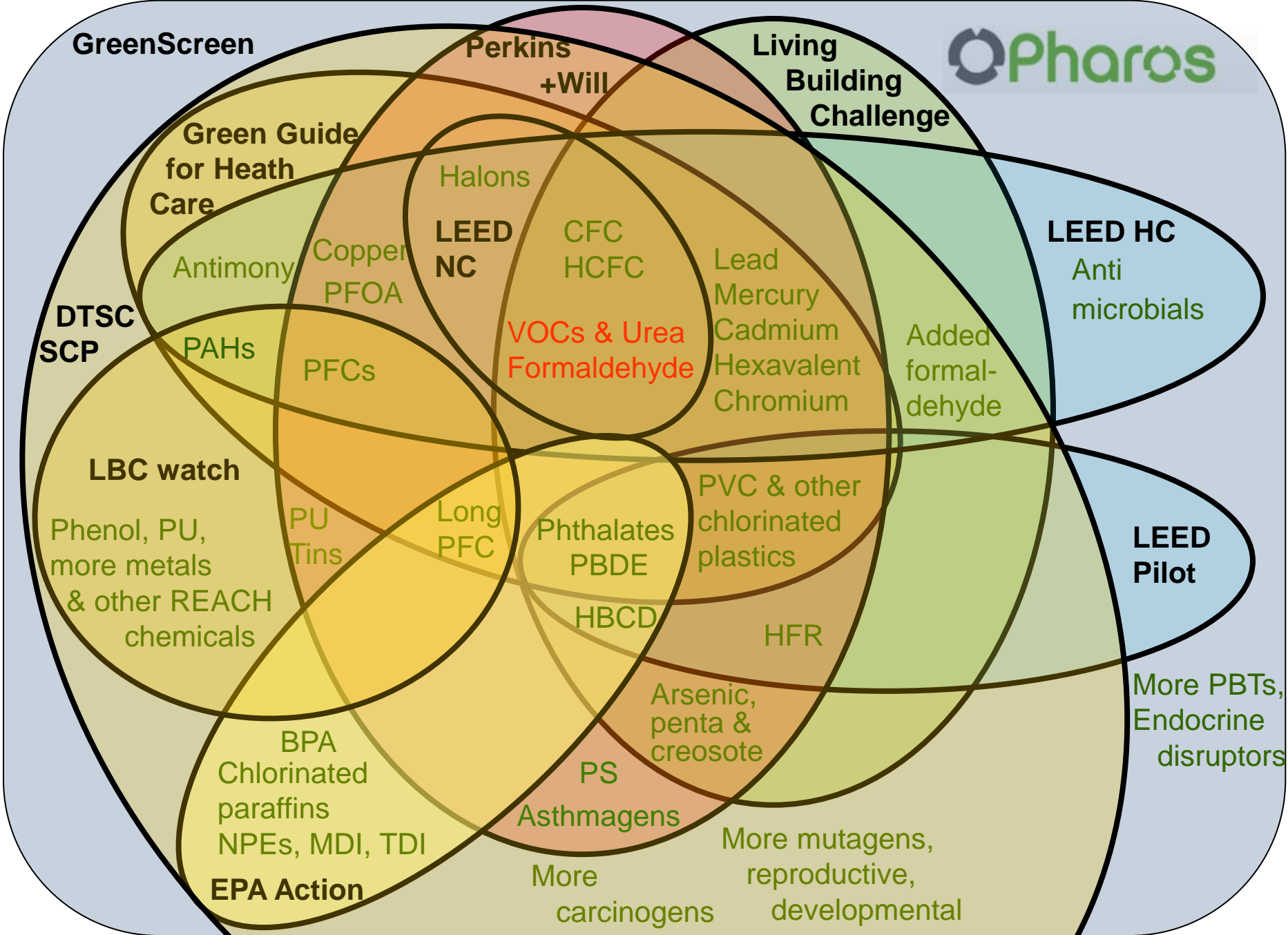
- Vinyl floors*
- Carpets*
- Vinyl wallpaper*
- Foam insulation*
- Polyurethane foam cushion*
- Polycarbonate glazing*
- ts & coatings*

many more

NOT VOCs



????????



Product code WOPX700-B

Date of issue 28 April 2009

Version 3.02

Product name PSX 700 CURE

3. Composition/information on ingredients

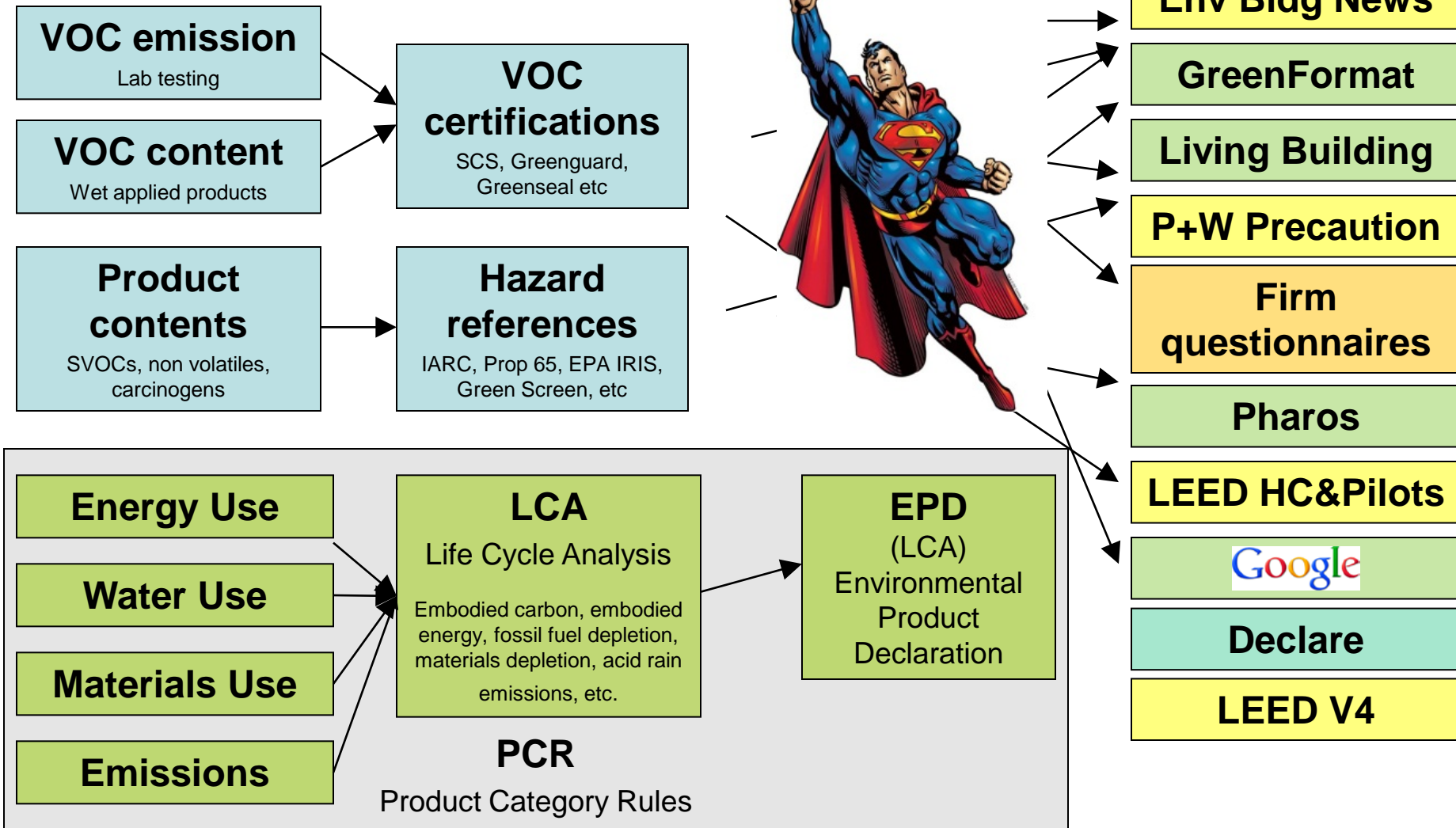
<u>Name</u>	<u>CAS number</u>	<u>%</u>
Proprietary silane	Proprietary	60 - 100
dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	3 - 7

4. First aid measures

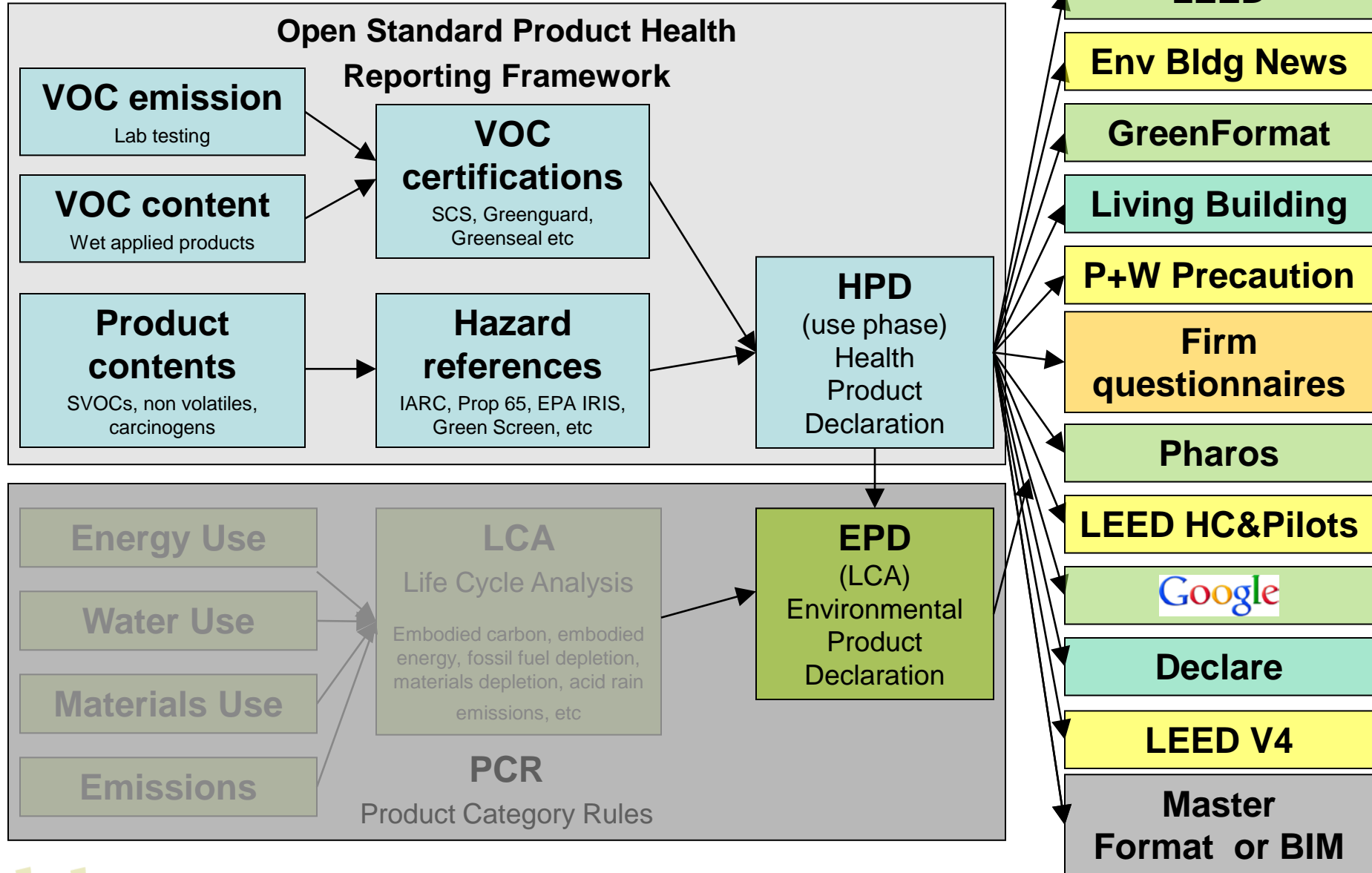
If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

No Health Equivalent to the EPD



Health Product Declaration



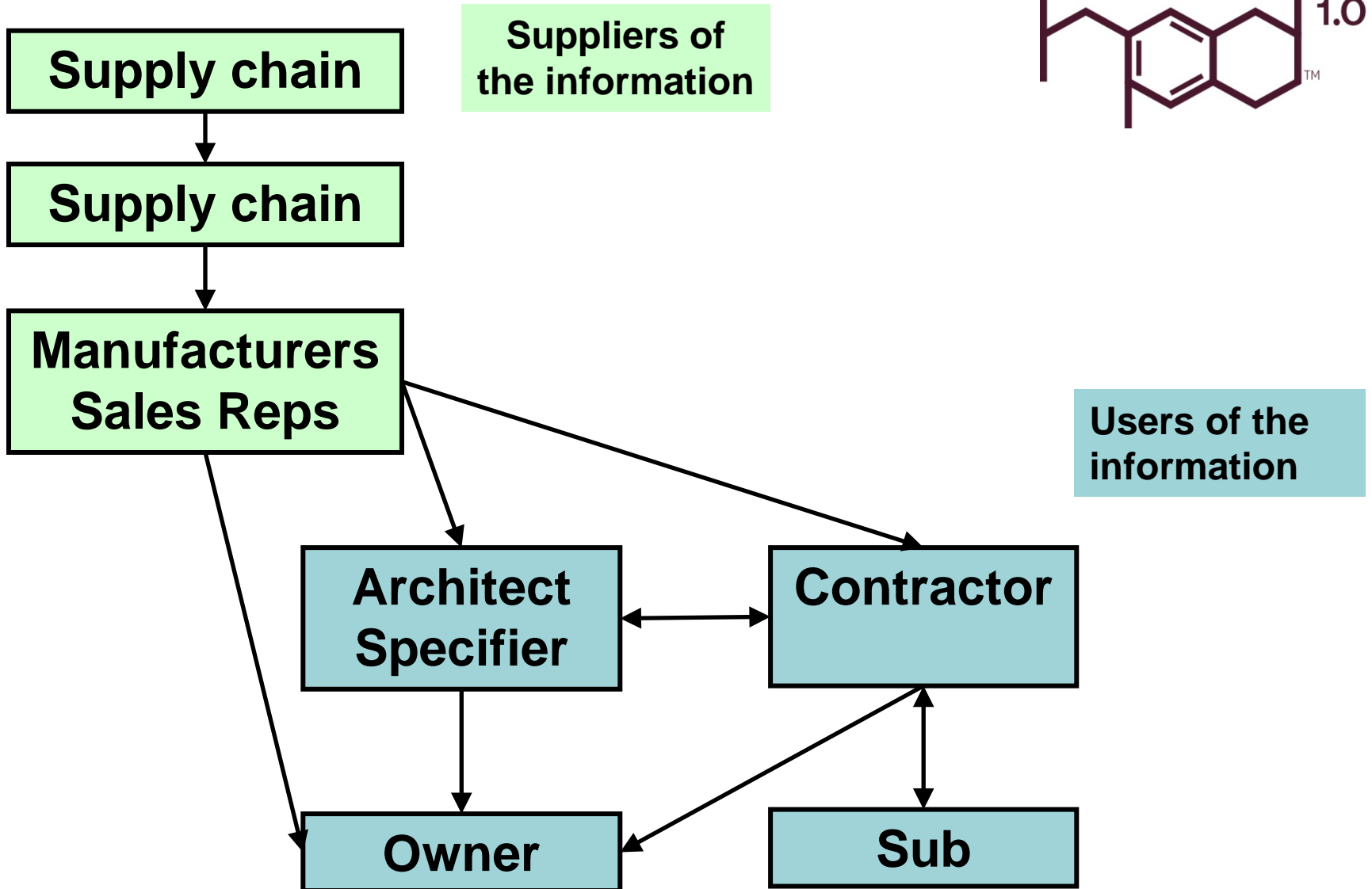
Health Product Declaration



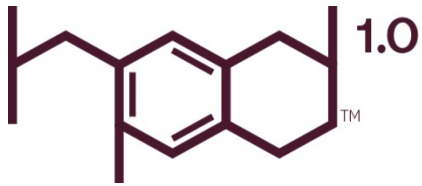
Open format standard for manufacturers to communicate product content & health hazard

Designed by & for design professionals and building owners

Communication Chains



30 manufacturers participated in the Pilot



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Teknion

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Tandus
FLOORING

BASF
The Chemical Company

Kingspan

Shaw

Each ingredient should list:

- Substance name
- Health Hazard Warnings (authoritative listings)
- CAS number (or species)
- % of weight of the product
- GreenScreen Benchmark
- Recycled content
- Uses nanotechnology
- Role or function

Ingredient	CAS number	% Weight	GS	RC	o	Role
Hazard A	Warning A					Notes
Hazard B	Warning B					
Hazard C	Warning C					
Hazard D	Warning D					
Hazard E	Warning E					
Bisphenol A diglycidyl ether (BADGE)	293733-21-8	35-42.6%	P1	No	No	Resin
Cancer	MAK: Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value					
Endocrine	EU ED: Category 2 - In vitro evidence of biological activity related to endocrine disruption (also in					
Skin or Eye	EU R-Phrases: R36: Irritating to skin.(also in EU H-Statements)					
Multiple	EPA Action: EPA Chemical of Concern - Action Plan published					
Alkyl (C12, C14) Glycidyl Ether	68609-97-2	16.52-20.3%	P1	No	No	Viscosity reducer
Skin or Eye	EU R-Phrases: R38: Irritating to skin. (also in EU H-Statements)					
Multiple	VwVwS: Class 2 Hazard to Waters					
Phenyl Glycidyl Ether	122-60-1	10-12%	BM1	No	No	Diluent
Cancer	Prop 65: Cancer (also in EU CMR (1, EU R-Phrases, EU H-Statements, NIOSH-C, MAK, IARC)					
Reproductive	Prop 65: Male reproductive toxicity					
Gene mutation	EU H-Statements: H341 Suspected of causing genetic defects					
Multiple	SIN: Classified CMR (Carcinogen, Mutagen &/or Reproductive Toxicant) (also in VwVwS)					
Multiple	Skin or Eye and Mammalian					
ACME Zap It	Unknown	6.0%		No	No	Antimicrobial
Unknown	Ajax has requested a full					

What if manufacturer doesn't disclose 100%?

(IP concern or component from another manufacturer)

- HPD defines full disclosure *and* what to say if can't disclose
- Complete HPD requires disclosure of health warnings and functional role, even if don't disclose identity

And explanation of rationale and timeline

Phenyl Cancer	Prop 65: Cancer (also in EU CMR (1, EU R-Phrases, EU H-Statements, NIOSH-C, MAK, IARC)							Diluent
Reproductive Gene mutation	EU H-Statements: H341 Suspected of causing genetic defects							
Multiple	SIN: Classified CMR (Carcinogen, Mutagen &/or Reproductive Toxicant) (also in VwVwS)							
Multiple	Skin or Eye and Mammalian							
ACME Zap It		Unknown	6.0%			No		Antimicrobial
Unknown								Ajax has requested a full disclosure from Acme with no success. Ajax is seeking an equally effective alternative disclosed antimicrobials.
Undisclosed (sulfanated compound)		Unknown	4.1%			No		Flame retardant
Aquatic toxicity	EU R-Phrases: R52: Harmful to aquatic organisms. (also in EU H-Statements)							Ajax is seeking patent protection for its unique flame protection formulation and will disclose it once patent protection is in place.
Silver		7440-22-4	2.0%	P1		Yes		Antimicrobial
Endocrine	TEDX: Potential Endocrine Disruptor - less than three studies							
Multiple	VwVwS: Class 3 Severe Hazard to Waters							
Kaolin Clay		1332-58-7	1.0%	U		No		Pigment Suspension
Cancer	MAK: Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification							
Formaldehyde		50-00-0	1.0%	BM1		No		Preservative
Cancer	IARC: Group 1: Agent is carcinogenic to humans (also in NTP-RoC, EPAC, Prop 65, NIOSH-C, EU							Formaldehyde emission levels are below the requirements of the Indoor Advantage certification program
Respiratory	AOEC: Asthmagen (AG) - generally accepted							
Mammal	EU R-Phrases: R25: Toxic if swallowed. (also in EU H-Statements)							
Skin or Eye	EU H-Statements: H317 May cause an allergic skin reaction (also in EU RPhrases)							

CERTIFICATIONS AND COMPLIANCE

Certifying Party = Self declaration: Manufacturer's self-declaration; **Independent lab:** Manufacturer's self-declaration using results from an independent lab and declaration of conformance. **Second Party:** Verification by trade association or other interested party; **Third Party:** Verification by independent certifier (ideal). **Applicable facilities = Manufacturing sites to which testing applies.**

Type	Standard or Certification			Certifier or Laboratory
	Certifying Party	Issue Date	Expiry Date	Certificate URL
	Applicable Facilities			Certification & Compliance Notes
VOC Emissions <i>(interior products only)</i>	Indoor Advantage Gold (Residential) Third Party	12-May-2010	12-May-2013	Scientific Certifications Systems/Berkeley Analytic Associates http://www.scs-certified.com/products/cert_pdfs/Ajax040611.pdf Maple Grove, AR is undergoing testing and should be certified by mid 2012
VOC Content <i>(wet applied only)</i>	SCAQMD Rule 1113			Self-declared by manufacturer
	Self-declared	29-Apr-2009	N/A	N/A
	All			

Recycled Content	none			none
Other	Cradle to Cradle Silver	12-Sep-2013		www.cradle2cradle.com/certs/0123456.pdf Cradle to Cradle Product Innovation Institute
	All			

- Type (VOC content, emissions or recycled content)
- Certifying program (or standard), incl scenario for VOC emissions
- Certifier/laboratory
- Certifier type (1st, 2nd, 3rd)
- Date of testing & Expiration & URL
- Applicable Facilities
- Notes to explain

Name **Tuff Stuff X42**
 Product ID SB5343 MasterFormat 99600
 Website www.ajaxmfg.com
 Manufacturer Ajax Manufacturing Contact Name John Doe
 Address Product Quality Department Title Director of Product Quality
 Address Line 2 100 Smith Street
 City, State, Code Somewhere, XX 19999 Email jdoe@AjaxMnfr.com
 Description High performance coatings for floors and other wet surfaces.



Summary

- All ingredients disclosed?
- All hazards disclosed?
- Level of residuals disclosed?
- Explanation

Release Date 1-Nov-2012 Self-declared
 Expiry Date 31-Oct-2015 Second Party Certifier
 HPD URL <http://bit.ly/xYz5555> Third Party Certificate #

SUMMARY

The content of this product was assessed for health hazard warnings as required using Pharos

- Residuals Disclosure
- measured 100 ppm (ideal)
 - measured 1000 ppm
 - as per MSDS (10,000 ppm)
 - predicted by process chemistry
 - not disclosed
 - other

- Full Disclosure of Intentional Ingredients Yes No
- Are all content hazards fully disclosed? Yes No

Notes
 Ajax is committed to full disclosure and intends to reformulate with disclosed ingredients by 2014.

Contents in Descending Order of Quantity (if the area below is full, refer to the following pages for additional listings)

Bisphenol A diglycidyl ether, Kaolin, Phenyl Glycidyl Ether, Butanedioldiglycidyl Ether, Undisclosed, Polyethylene, Silver, Acme Zap-It, Electronics, Mixed hardware, Formaldehyde, Palladium.

- as per MSDS (10,000 ppm)
- predicted by process chemistry
- not disclosed
- other

Ajax is committed to full disclosure and intends to reformulate with disclosed ingredients by 2014.

Contents in Descending Order of Quantity (if the area below is full, refer to the following pages for additional listings)
 Bisphenol A diglycidyl ether, Kaolin, Phenyl Glycidyl Ether, Butylacrylate, Polyethylene Glycol, Titanium Dioxide, Silver, Acme Zap-It, Electronics, Mixed hardware, Formaldehyde, Palladium.

- List of ingredients
- Summary of hazards
- List of certifications

Hazards

- | | | | | |
|---------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------|------------------------------------------|-----------------------------------|
| <input type="checkbox"/> PBT
<i>(Persistent Bioaccumulative Toxic)</i> | <input checked="" type="checkbox"/> Development | <input type="checkbox"/> Neurotoxicity | <input type="checkbox"/> Land toxicity | <input type="checkbox"/> Multiple |
| <input checked="" type="checkbox"/> Cancer | <input checked="" type="checkbox"/> Reproductive | <input type="checkbox"/> Mammal | <input type="checkbox"/> Physical hazard | <input type="checkbox"/> Unknown |
| <input checked="" type="checkbox"/> Gene mutation | <input checked="" type="checkbox"/> Endocrine | <input type="checkbox"/> Skin or Eye | <input type="checkbox"/> Global warming | |
| | <input type="checkbox"/> Respiratory | <input checked="" type="checkbox"/> Aquatic toxicity | <input type="checkbox"/> Ozone depletion | |

Total VOC Content

Material (g/l) 30
 Regulatory (g/l) 50

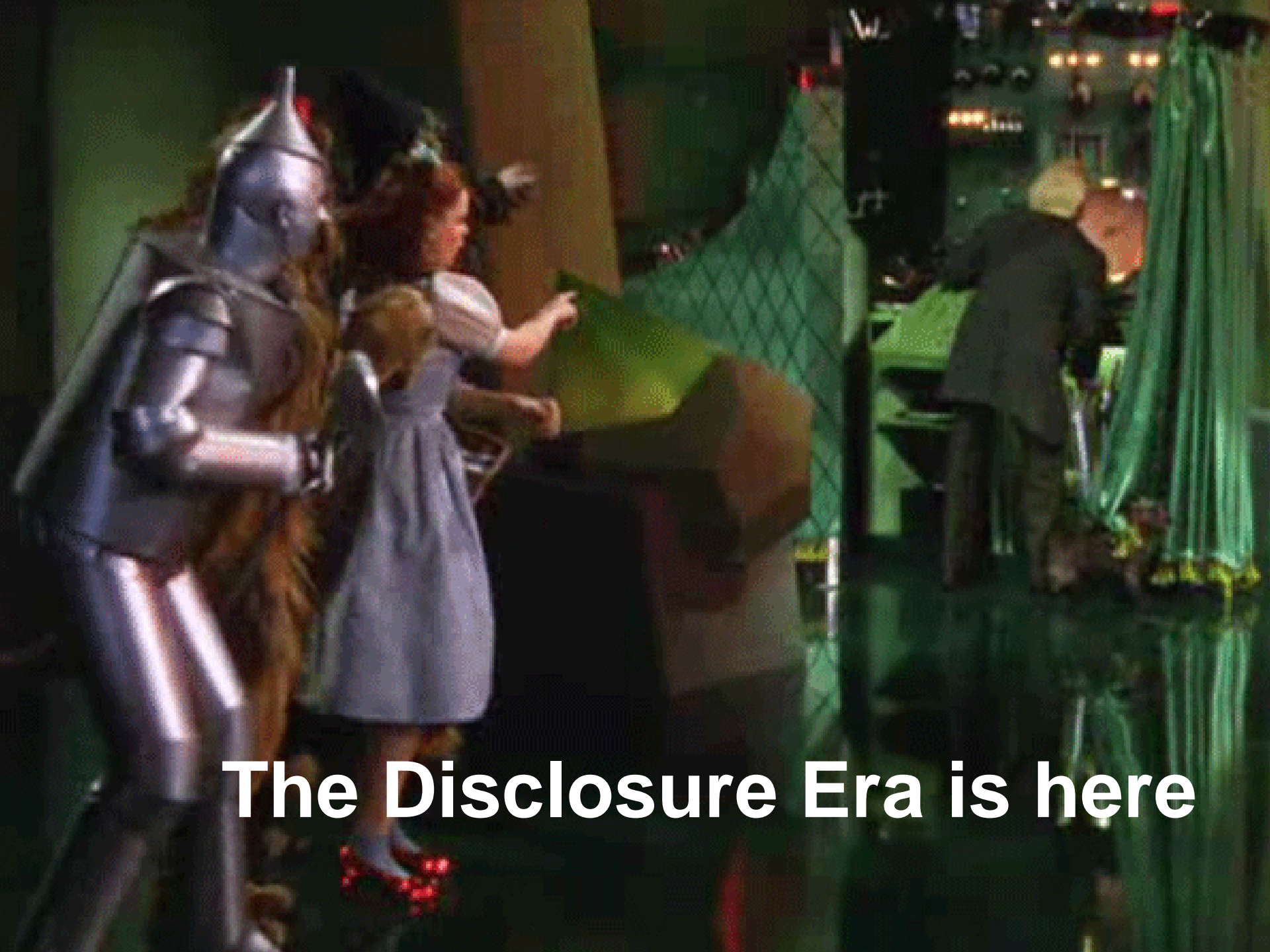
- Does the product contain exempt VOCs? NA Yes No
 Are there VOC-free tints available? NA Yes No

Notes

The Breathe Free tint system is available from qualified distributors. Contact Ajax Manufacturing to find your nearest distributor.

Certifications and Compliance (if the area below is full, refer to the following pages for additional listings)

VOC Content SCAQMD Rule 1113 VOC Emissions Indoor Advantage - Gold (Residential)
 Cradle to Cradle - Silver

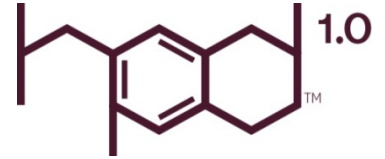


The Disclosure Era is here



Coming in LEED V4:

- **Material Ingredient Reporting**
- **Material Ingredient Optimization**



**Manufacturers & Designers:
Know & Disclose your hazards
Assess & Avoid & Improve**





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Date: Wednesday, September 19, 2012, 3:47pm PDT

Portland and Multnomah County break ground with sustainable purchasing initiative

By Christina Williams
Sustainable Business Oregon editor

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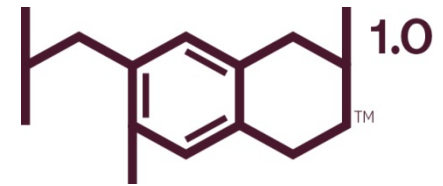
Portland City Council unanimously passed an initiative Wednesday that will put a program in place for city officials to require chemical ingredients to be disclosed before goods are purchased.

[Enlarge Im](#)



Discloses:

- **Product content & emissions**
(including residuals)
- **Health hazards**



Part of a process

Does **NOT** address:

- **Process chemicals**

Pharos

- **Degradation products**

(or transformation products, interactions, reaction products)



- **Life cycle flows**

(energy, water, acid rain, etc.)



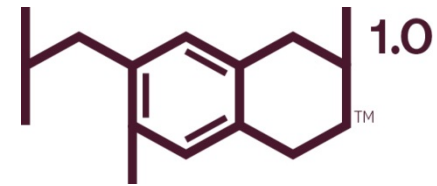
- **Material cycle sustainability**

(recycled content, recyclability, extraction responsibility, etc.)



Discloses:

- **Product content & emissions**
(including residuals)
- **Health hazards**



Does **NOT** address:

- **Process chemicals**
- **Degradation products**
(or transformation products, interactions, reaction products)
- **Life cycle flows**
(energy, water, acid rain, etc.)
- **Material cycle sustainability**
(recycled content, recyclability, extraction responsibility, etc.)

www.HPDCollaborative.org

Outstanding issues:

- **Thresholds – *what levels matter?***
- **Third party certification – *trust but verify?***
- **Unique IDs – *gaming with the CAS system***
- **Interoperability – *passing information not PDFs***