



**Finding your way through  
the jungle of chemical hazard info  
Pharos & the Data Commons**

**Tom Lent**

**Healthy Building Network**

BizNGO December 9, 2015 Boston



**Chemicals and Materials**

About the CML Search Chemicals and Materials (37,718) Search Hazard

Showing 1 - 66 of 66 results

AGCC - Asbestos  
AGCC Exposure Codes - Asbestos List  
Agency: Association of Occupational and Environmental Clinics (AOEC)  
Type: Chemical Hazard List

BPMA 43level Annex B list of chemicals  
BPMA 43level Annex B list of chemicals  
Agency: Business and Institutional Furniture Manufacturers Association (BPMA)  
Type: Restricted Substance List

Boyes - Neurotoxicity  
Chemicals with occupational exposure standards based on nervous system effects (Boyes 2001)  
Agency: Pithya Toxicology; author William K Boyes  
Type: Chemical Hazard List

CXC General Chemicals  
Banned Lists of Chemicals in the Cradle to Cradle Certified Product Standard - Version 3.0  
Agency: Cradle to Cradle Products Innovation Institute (CCPI)  
Type: Restricted Substance List

CA EPA - Prop 65  
Chemicals Known to the State to Cause Cancer or Reproductive Toxicity - California Proposition 65 - Safe Drinking Water and Toxic Enforcement Act Of 1986  
Agency: California Environmental Protection Agency (CALEPA)  
Type: Chemical Hazard List

CA SQP Candidate Chemicals  
Safer Consumer Product Candidate Chemicals  
Agency: Department of Toxic Substances Control (DTSC)  
Type: Restricted Substance List

ChE - Toxicant Database  
Toxicant and Disease Database  
Agency: Collaborative on Health and the Environment (CHE)  
Type: Chemical Hazard List

ChemSec - SIN List  
SIN (Substitute It Now) List  
Agency: ChemSec, The International Chemical Secretariat  
Type: Chemical Hazard List

EC - CEPA USL  
Canadian Environmental Protection Act (CEPA) - Environmental Registry - Domestic Substances List (DSL)  
Agency: Environment Canada & Health Canada  
Type: Chemical Hazard List

EC - CEPA Toxic Substances (Schedule 1)  
Canadian Environmental Protection Act (CEPA) - Environmental Registry - Toxic Substances List (Schedule 1)  
Agency: Environment Canada & Health Canada  
Type: Restricted Substance List

EC - Ozone depletion substances  
Regulation (EC) No 1935/2003 of the European Parliament and of the Council of 16 September 2003 on substances that deplete the ozone layer - Controlled substances and new substances  
Agency: European Union / European Commission (EU EC)  
Type: Chemical Hazard List

EC - PACT-RMBA Substances  
Public Activities Coordination Tool for Risk Management Option Analysis  
Agency: European Union / European Commission (EU EC)  
Type: Restricted Substance List

EC - REACH Exemptia  
Commission Regulation (EC) No 957/2005 Annex I & 2 Exemptions from the Obligation to Register in accordance with REACH article 27(a)  
Agency: European Union / European Commission (EU EC)  
Type: Restricted Substance List

EC - RoHS  
Directive on the Restriction Of the use of certain Hazardous Substances in electrical and electronic equipment ANNEX II  
Agency: European Union / European Commission (EU EC)  
Type: Restricted Substance List

EHF - San Antonio Statement on BPA's & O'Ph  
San Antonio Statement on Brominated and Chlorinated Flame Retardants  
Agency: Environmental Health Perspectives  
Type: Chemical Hazard List

Environment Canada - Virtual Elimination List  
Canadian Environmental Protection Act (CEPA) - Environmental Registry - Virtual Elimination List  
Agency: Environment Canada & Health Canada

OSPAR - Priority PGTs & CEs & equivalent concern

EU - REACH Annex XVIII CMRs  
Restrictions On The Manufacture, Placing On The Market And Use Of Certain Dangerous Substances, Preparations And Articles - Carcinogenes, Mutagens & Reproductive Toxicants  
Agency: European Union / European Commission (EU EC)  
Type: Chemical Hazard List

EU - SVHC Authorisation List  
Substances of Very High Concern for REACH Annex XIV authorisation (Article 35)  
Agency: European Union / European Commission (EU EC)  
Type: Chemical Hazard List

FOG - Good Wood Guide  
Good Wood Guide  
Agency: Friends of the Earth (FOE)  
Type: Endangered Species List

GSL - Neurotoxic Chemicals  
Developmental neurotoxicity of industrial chemicals, List of 201 Chemicals known to be neurotoxic in man  
Agency: Lancet; authors Philippe Grandjean & Phil Landrigan  
Type: Chemical Hazard List

German F EA - Substances Hazardous to Waters  
Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (Verwaltungsvorschrift wasserfahrende Stoffe)  
Agency: German Federal Environment Agency  
Type: Restricted Substance List

Hazardous 100  
Hazardous 100+ List of Chemicals of High Concern  
Agency: Safer Chemicals, Healthy Families  
Type: Restricted Substance List

HSN - Priority Asbestos  
HSN Priority Building Material Asbestos List  
Agency: Healthy Building Network (HSN)  
Type: Restricted Substance List

IARC  
Monographs On the Evaluation of Carcinogenic Risk to Humans  
Agency: International Agency for Research on Cancer, World Health Organization (IARC)  
Type: Chemical Hazard List

IUCN - Red List  
IUCN Red List of Threatened Species  
Agency: International Union for Conservation of Nature and Natural Resources (IUCN)  
Type: Endangered Species List

Japan - GHS  
GHS Classifications  
Agency: Government of Japan  
Type: Chemical Hazard List

Korea - GHS  
GHS Classification and Labelling for Toxic Chemicals  
Agency: Republic of Korea - National Institute of Environmental Research  
Type: Chemical Hazard List

Living Future - Living Building Red List  
Living Building Challenge 2.1 - Red List of Materials & Chemicals  
Agency: International Living Future Institute (ILFI)  
Type: Restricted Substance List

Living Future - Living Building Red List  
Living Building Challenge 3.0 - Red List of Materials & Chemicals  
Agency: International Living Future Institute (ILFI)  
Type: Restricted Substance List

MAK  
List of Substances with MAK & BAT Values & Categories  
Agency: MAK Commission of Germany (Deutsche Forschungsgemeinschaft)  
Type: Chemical Hazard List

New Zealand - GHS  
New Zealand HSMO Chemical Classifications  
Agency: New Zealand Environmental Protection Authority  
Type: Chemical Hazard List

OH DEQ - Priority Persistent Pollutants  
Priority Persistent Pollutant (PP3) List  
Agency: Oregon Department of Environmental Quality (OHDEQ)  
Type: Chemical Hazard List

OSPAR - Priority PGTs & CEs & equivalent concern

PF - Precautionary List  
Precautionary List  
Agency: Parkwest/Will  
Type: Restricted Substance List

Quebec CSST - WHMIS 1008  
WHMIS-SIMQUT - Controlled Products Classification  
Agency: Government of Quebec  
Type: Chemical Hazard List

Quebec CSST Asthma Agents  
Agents Causing Occupational Asthma With Known Causes  
Agency: Quebec Workplace Health and Safety de la santé et de la sécurité du travail (CSST)  
Type: Chemical Hazard List

Shed Spring - Shed Cancer Chemicals  
Mandatory Carcinogens Review Database  
Agency: Silent Spring Institute  
Type: Chemical Hazard List

TEEX - Potential Endocrine Disruptors  
TEEX List of Potential Endocrine Disruptors  
Agency: The Endocrine Disruption Exchange  
Type: Chemical Hazard List

UNEP - POP Annex III  
Rotterdam Convention Prior Informed Consent wasserfahrende Stoffe)  
Agency: United Nations Environment Program  
Type: Restricted Substance List

UNEP Stockholm Conv - Persistent Organic Pollutants  
Stockholm Convention on Persistent Organic A, B & C and under Review  
Agency: United Nations Environment Program  
Type: Restricted Substance List

UNEP WCMC - QTES-Listed Trees  
Convention on International Trade in Endangered Fauna and Flora (CITES) - Listed Trees  
Agency: United Nations Environment Program  
Type: Endangered Species List

US CDC - Occupational Carcinogens  
MOSH Carcinogen List  
Agency: US Centers for Disease Control (US CDC)  
Type: Chemical Hazard List

US EPA - DfE SOL  
Safer Chemical Ingredients List (Positive List)  
Agency: US Environmental Protection Agency  
Type: Restricted Substance List

US EPA - EPCRA Extremely Hazardous Substances  
Extremely Hazardous Substances - EPCRA Section 302  
Agency: US Environmental Protection Agency  
Type: Chemical Hazard List

US EPA - Exempt VOCs  
VOCs exempt from airreg regulation because of photochemical reactivity  
Agency: US Environmental Protection Agency  
Type: Restricted Substance List

US EPA - Global Warming Potentials  
Global Warming Potentials of Ozone Depletor  
Agency: US Environmental Protection Agency  
Type: Chemical Hazard List

US EPA - Hazardous Air Pollutants  
Clean Air Act Amendments of 1990 List of Hazardous Air Pollutants  
Agency: US Environmental Protection Agency  
Type: Restricted Substance List

US EPA - IRIS Carcinogenes  
Integrated Risk Information System Database (IRIS)  
Agency: US Environmental Protection Agency  
Type: Chemical Hazard List

US EPA - OIP\* - Registered Pesticides  
Federal Insecticide, Fungicide, and Rodenticide Pesticides (Selections)  
Agency: US Environmental Protection Agency  
Type: Chemical Hazard List

US EPA - Ozone Depleting Substances  
Ozone-Depleting Substances (ODS) Class I & II  
Agency: US Environmental Protection Agency  
Type: Chemical Hazard List

US EPA - PPT Chemical Action Plans  
Risk Management Actions & TSCA Work Plans  
Agency: US Environmental Protection Agency  
Type: Restricted Substance List



# Pharos Chemical & Material Library

## 46 authoritative hazard lists

Chemicals and Materials

## GS List Translator+



About the CML

Showing 1 - 66 of 66 results

AOEC - Asthmagens

AOEC Exposure Codes - Asthmagens

Agency: Association of Occupational and Environmental Clinics (AOEC)

Type: Chemical Hazard List

BIFMA e3/level Annex

BIFMA e3/level Annex B lists

Agency: Business and Industry

Type: Restricted Substance

Boyes - Neurotoxicants

Chemicals with occupational

Agency: Pattys Toxicology

Type: Chemical Hazard List

### AOEC Exposure Codes - Asthmagen List

Agency: Association of Occupational and Environmental Clinics (AOEC)

General Information Specific Health or Ecosystem Hazards Materials Listed (273) Admin

#### Description:

The AOEC is a non-profit organization that provides information on occupational and environmental health and safety hazards and injuries.

The AOEC Exposure Codes are used to identify and classify hazardous substances, but not limited to asthma. The AOEC Exposure Codes are used to identify and classify hazardous substances, plants, animals etc.

The AOEC Exposure Codes are used to identify and classify hazardous substances, but not limited to asthma. The AOEC Exposure Codes are used to identify and classify hazardous substances, plants, animals etc.

Formal criteria for the selection of substances for the AOEC criteria, the AOEC Exposure Codes are used to identify and classify hazardous substances, but not limited to asthma. The AOEC Exposure Codes are used to identify and classify hazardous substances, plants, animals etc.

Exposures designated as:

- Rs = Reviewed
- Rr = Reviewed
- Rrs = Reviewed
- R- = reviewed
- G = Substances

**Pharos Exclusions:** The Pharos listing for AOEC currently includes only those substances that have been given an "A" and/or "B" code by the AOEC. Substances

Dashboard / Hazard Lists / AOEC - Asthmagens

### AOEC - Asthmagens

#### AOEC Exposure Codes - Asthmagens

Agency: Association of Occupational and Environmental Clinics (AOEC)

General Information Specific Health or Ecosystem Hazards Materials Listed (273) Admin

Code	Hazard Level	Description
RESPIRATORY	Medium Hazard	Asthmagens (A)
RESPIRATORY	High Hazard	Asthmagens (Rs) - Suspected asthma
RESPIRATORY	High Hazard	Asthmagens (Rr) - Irritant asthma
RESPIRATORY	High Hazard	Asthmagens (Rr&Rs) - Irritant asthma
RESPIRATORY	Potential Concern Hazard	Asthmagens (R) - Irritant asthma
RESPIRATORY	Medium Hazard	Suspected asthma
RESPIRATORY	Medium Hazard	Asthmagens (AF) - Asthma

### AOEC Exposure Codes - Asthmagen List

Agency: Association of Occupational and Environmental Clinics (AOEC)

General Information Specific Health or Ecosystem Hazards Materials Listed (273)

CAS RN Material Name

2746-19-2 (1\_2\_3\_6)-1,2,3,6-tetrahydro-3,6-methanophthalic anhydride

111-41-1 (2-AMINOETHYL)ETHANOLAMINE

68391-01-5

68155-39-5

123-77-3

693-23-2

694-83-7

85-42-7

9072-91-7

26590-20-5





# Pharos Chemical & Material Library

## 20 Restricted Substance Lists



SCP Candidate List



[epa.gov/saferchoice](http://epa.gov/saferchoice)

DfE SCIL



C2C Banned List



LBC Red List



Level Annex B Chemicals of Concern



REACH Exempt



Hazardous 100+ Chemicals

# Pharos Chemical & Material Library

Over 37,000 substances  
Almost 500 chemical classes



Building Products

Chemicals and Materials

Hazards

Certifications

Dashboard

Logout

Dashboard / Chemicals and Materials

## Chemicals and Materials

Showing 1 - 100 of 35,980 results

CAS RN	Material Name	Hazard			GreenScreen
		Substance	Residual	Manufacturing	
81972-48-7	_[2,6-Bis(1-methylethyl) phenyl]-_-[2,6-bis(1-methylethyl)phenyl] ]carbonimidoyl]amino]poly[nitrilomethanetetraylnitril o[2,4,6-tris(1-methylethyl)-1,3-phenylene	●	●	●	LT-UNK
193159-06-7	_[3-(1-oxoprop-2-enyl)-1-oxypropyl]dimethoxysilyloxy-_[3-(1-oxoprop-2-enyl)-1-oxypropyl]dimethoxysilyl poly(dimethylsiloxane)	●			LT-UNK
874299-53-3	_-4-(Hydroxy-kO)-3,8-bis2-(hydroxy-kO)-5-nitrophenylazo-kN1-7-(phenylamino-kN)-2-naphthalenesulfonato(5-)-bis3-(hydroxy-kO)-4-2-(hydroxy-kO)-1-naphthalenylazo-kN1-7-nitro-1-naphthalenesulfonato(3-)-dichromate(5-), disodium trihydrogen	●			LT-P1
67375-30-8	_-CYPERMETHRIN	●			LT-P1
18304-13-7	_-D-Glucopyranoside, 1,3,4,6-tetrakis-O-(2-cyanoethyl)- -β-D-fructofuranosyl 2,3,4,6-tetrakis-O-(2-cyanoethyl)-	●			LT-UNK

Search term

butyl benz

- [136-60-7] BUTYL BENZOATE
- [85-68-7] BUTYL BENZYL PHTHALATE (BBP)
- [120-50-3] isobutyl benzoate
- [1074-92-6] 1-methyl-2-tert-butyl benzene

Restricted lists include

Restricted lists do not include

Include residuals in selected filters above

# [85-68-7] BUTYL BENZYL PHTHALATE (BBP)

## What are its known hazards?

Developmental Toxicant - can cause harm to the developing child including birth defects, low birth weight and biological or behavioral problems that appear as the child

Hazards

Compound Groups

Life Cycle Research

GreenScreen

Direct Hazard level

GreenScreen LT-1 (Likely Benchmark 1), H - Reproductive and/or Developmental Toxicity (Group I Human Health Effects - Multiple, Authoritative B)

DEVELOPMENTAL TOXICITY

NIH - Reproductive & Developmental Monographs - A-Clear evidence of developmental toxicant effects

+ 3

REPRODUCTIVE

Health Product Declaration  
authorized

EC - REACH SVHCs for authorisation - Toxic to reproduction - Banned unless

+ 6

CANCER

HPD Priority List

US EPA - IRIS Carcinogens - (1986) Group C - Possible human carcinogen

+ 1

ENDOCRINE

Health Product Declaration

EC/Oslo-Paris Conv - Priority PBTs & EDs & equivalent concern - Endocrine disruptor - Chemical for Priority Action

+ 3

GENE MUTATION

Health Product Declaration

Japan METI/MOE - GHS Classifications - Germ cell mutagenicity - Category 2

ACUTE AQUATIC

Health Product Declaration

EC - CLP/GHS Hazard Statements - H400 - Aquatic Acute 1 - Very toxic to aquatic

+ 5

# [85-68-7] BUTYL BENZYL PHTHALATE (BBP)

*what chemical classes is it in?*

General Information

Hazards

Compound Groups

Life Cycle Research

GreenScreen

Admin

+ Add a compound group

## Compound Groups (2):

- Butylbenzyl phthalate and metabolite
- PHTHALATES (orthophthalates)

# [85-68-7] BUTYL BENZYL PHTHALATE (BBP)

## *What is its GreenScreen List Translator rating?*

 General Information

 Hazards

 Compound Groups

 Life Cycle Research

 GreenScreen

 Admin

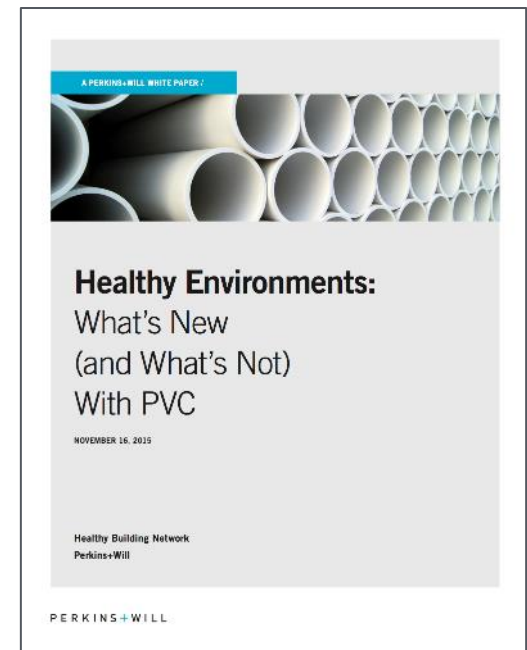
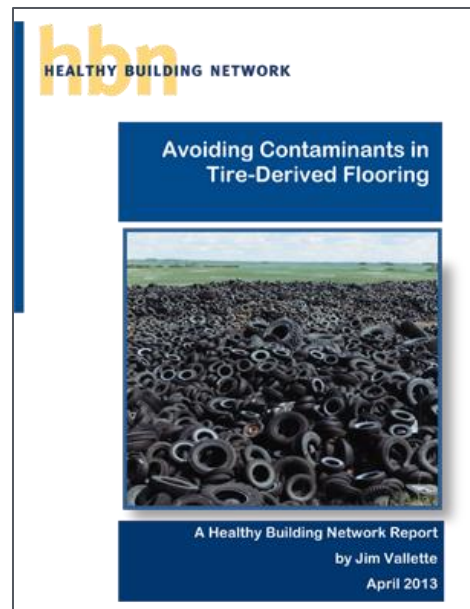
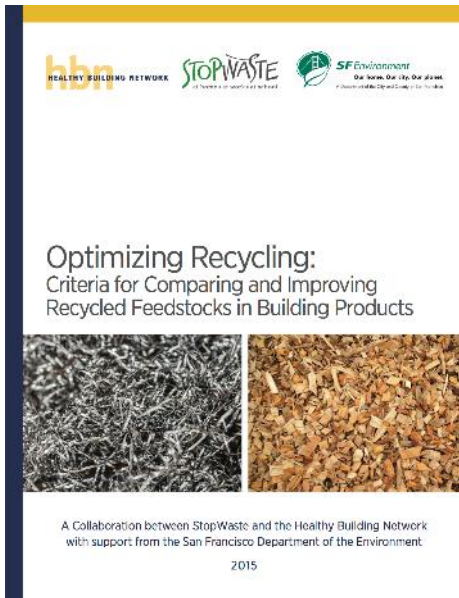
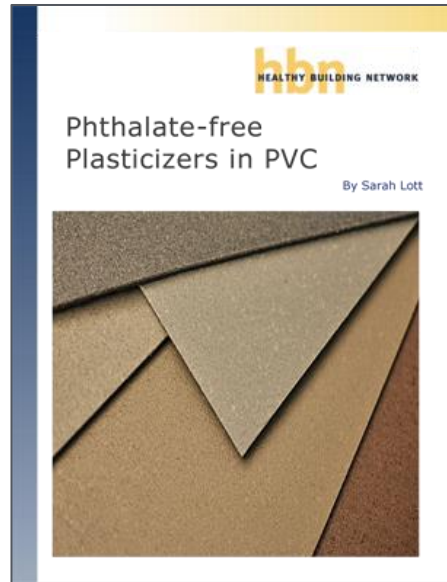
 Add GreenScreen Full Assessment

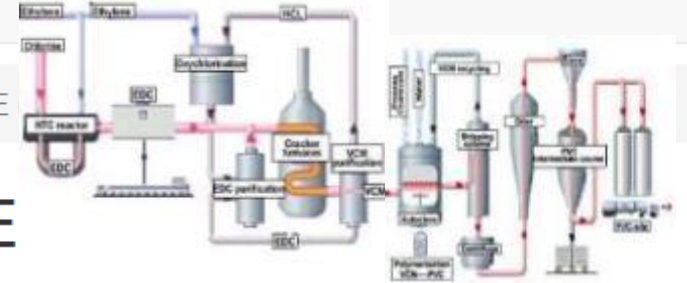


**Green Screen for Safer Chemicals Full Assessment:** *None available*

**Highest concern GreenScreen score** : LT-1 (Likely Benchmark 1)







# [85-68-7] BUTYL BENZYL PHTHALATE

- General Information
- Hazards
- Compound Groups
- Life Cycle Research**
- GreenScreen

**Life Cycle Research Status:** Preliminary literature review drafted

**Life Cycle Chemicals - Known and Potential Residuals:**

*What is it made from?  
Likely residuals?*

Material	Hazard			Type	Frequency	Notes
	Substance	Residual	Manufacturing			
[100-44-7] BENZYL CHLORIDE	●			Monomer	Integral	🗨️
[71-36-3] N-BUTANOL	●		●	Monomer	Integral	🗨️
+ [85-44-9] PHTHALIC ANHYDRIDE	●	●	●	Monomer	Integral	🗨️

**This material is used in the life cycle of:**

*What is made from it?*

[9002-86-2] POLYVINYL CHLORIDE (PVC)	●	●	●	Additive - Non-reactive	Occasional/Rare	10 🗨️
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# [85-68-7] BUTYL BENZYL PHTHALATE (BBP)

*what products have we found it in?*

General Information

Hazards

Compound Groups

Life Cycle Research

GreenScreen

CAS RN: 85-68-7

**Synonyms:** 1,2-benzenedicarboxylic acid, butyl phenylmethyl ester, BzBP, benzyl butyl phthalate

**Used in Product Categories:** Flooring, **Carpet - Tile and Sheet**, **Roofing Membranes**, **Resilient Flooring**, **Adhesives**, Resilient Flooring Components, Carpet Backing, Wood Flooring Adhesives, Roofing Membrane Components

**Description:**

plasticizer for PVC - flooring, textiles, sealants, adhesives [http://echa.europa.eu/doc/consultations/recommendations/justifications/justif\\_bbp.pdf](http://echa.europa.eu/doc/consultations/recommendations/justifications/justif_bbp.pdf)

**Website (if applicable):** Not provided

**VOC designation:** VOC (Boiling point: 250 degrees Celsius)

# [1309-64-4] ANTIMONY TRIOXIDE

## Has it been fully GreenScreen assessed?

[General Information](#)
[Hazards](#)
[Compound Groups](#)
[Life Cycle Research](#)
[GreenScreen](#)

**GreenScreen for Safer Chemicals Full Assessment Chemical Benchmark: Benchmark 1**

[Download GreenScreen Assessment](#)

Group I Human					Group II and II* Human								
C	M	R	D	E	AT	ST		N		SnS*	SnR*	IrS	IrE
						single	repeat*	single	repeat*				
M	M	M	L	DG	L	-	H	-	L	L	DG	M	M

**Eye Irritation/Corrosivity**

**Moderate** (high confidence)  
 Antimony trioxide was assigned a score of Moderate for Eye Irritation based on tests results provided within the EPA's DfE alternatives assessment which indicates antimony trioxide produced reversible mild eye irritation in rabbits. DfE categorizes antimony trioxide as a low eye irritant which corresponds to a moderate score under GreenScreen Eye Irritation/Corrosivity. The score was based on empirical data provided within EPA's Alternatives

**Organic:** Inorganic

**Profiler:** [Rosenblum Environmental](#) (Clean Production Action Toxicologist)

**Date of Assessment:** 2014-02-09

**Version:** 1.2

**Type of GreenScreen:** Certified

**Summary Explanation:**

Antimony trioxide was assigned a Benchmark Score of 1 based on high systemic repeat dose toxicity and very high persistence.



# Ecosystem support

**FLUX** SUSTAINABLE ARCHITECTURE @SCALE

**QUARTZ**

**Pharos** → API

Supply chain

Google  
PORTICO

ChemHAT.org  
designed by workers for workers

**Declare.**

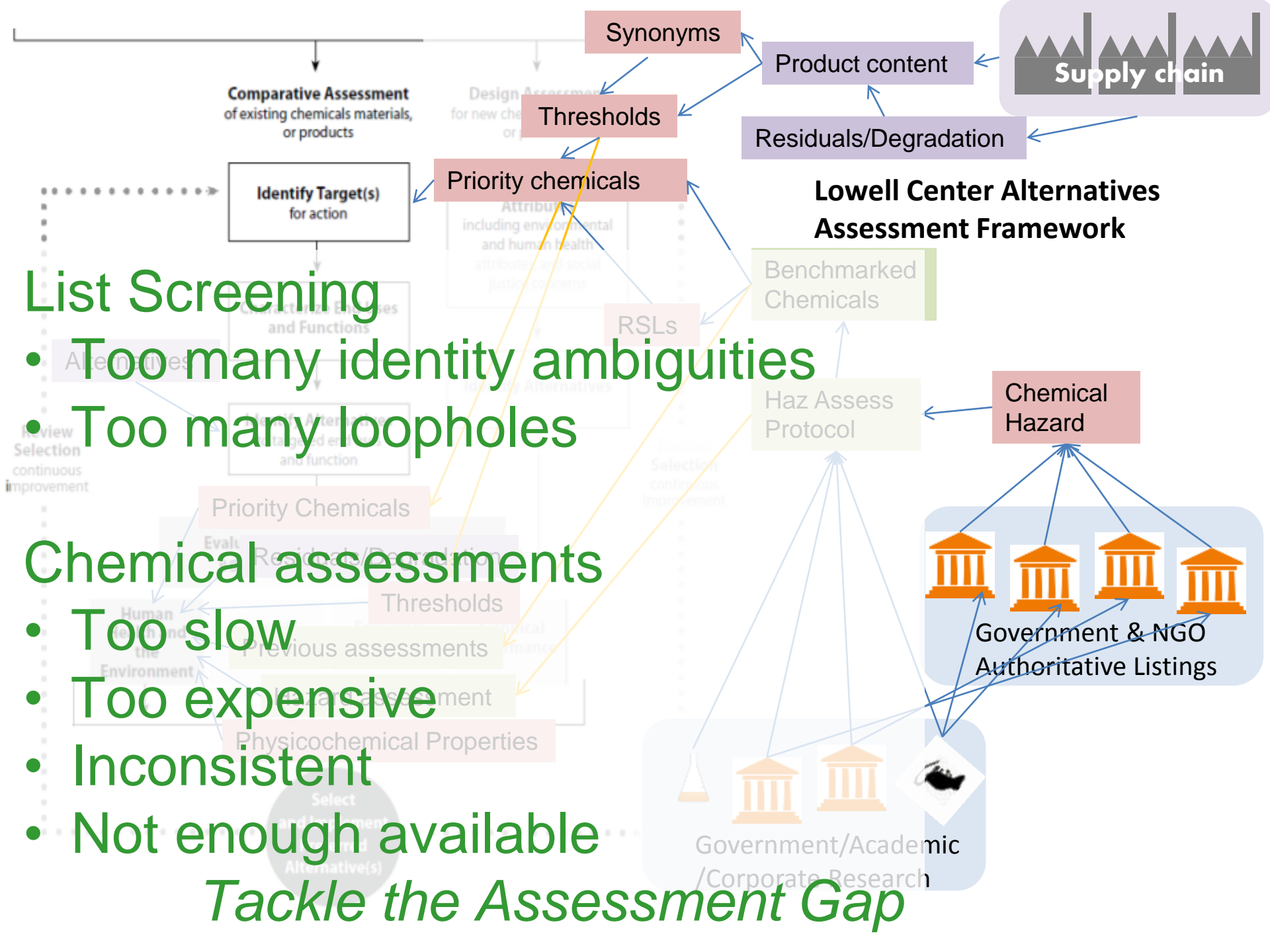
Product Name  
Manufacturer Name  
City, State/Province, Country  
Life Expectancy: 000 YEARS  
End of Life Options: Recyclable (42%), Landfill

Ingredients:  
Ingredient One (Location, ST), The Second Item (Location, ST), Nextingredient (Location, ST), Living Building Challenge Red List, Different Part of the Product, Another Component, More Stuff, US EPA, Chemical of Concern, Yet Another Item, Non-toxic Element, Pieceofthewhole, Component of Concotion, ThirldFromTheEnd, ECHA REACH Substance of Very High Concern, Last Ingredient

CERTIFIED CM  
cradletoocradle

LIVING BUILDING CHALLENGE™  
INTERNATIONAL LIVING FUTURE INSTITUTE™ www.livingfuture.org

General Information	Hazards	Compound Groups	Life Cycle Research	GreenScreen
<b>Direct Hazards:</b>				
DEVELOPMENTAL		US NIH - Reproductive & Developmental Monographs - A-Clear evidence of adverse developmental toxicant effects		
REPRODUCTIVE		EC - REACH SVHCs for authorisation - Toxic to reproduction - Banned unless authorized		
CANCER		US EPA - IRIS Carcinogens - (1986) Group C - Possible human carcinogen		
ENDOCRINE		EC/Oslo-Paris Conv - Priority PBTs & EDs & equivalent concern - Endocrine disruptor - Chemical for Priority Action		
GENE MUTATION		Japan MET/MOE - GHS Classifications - Germ cell mutagenicity - Category 2		
ACUTE AQUATIC		EC - CLP/GHS Hazard Statements - H400 - Aquatic Acute 1 - Very toxic to aquatic life		
CHRON AQUATIC		EC - CLP/GHS Hazard Statements - H410 - Aquatic Chronic 1 - Very toxic to aquatic life with long lasting effects		
RESPIRATORY		CHE - Toxicant Database - Asthma - allergen, sensitizer - limited evidence *		
MAMMALIAN		Japan MET/MOE - GHS Classifications - Acute toxicity (oral) - Category 5		
EYE IRRITATION		Japan MET/MOE - GHS Classifications - Serious eye damage / eye irritation - Category 2B		



## List Screening

- Too many identity ambiguities
- Too many loopholes

## Chemical assessments

- Too slow
- Too expensive
- Inconsistent
- Not enough available

*Tackle the Assessment Gap*



# Chemical Data Commons Project

## Improved List Screening



- **GS List Translator & C2C lists**  
& hazard summary tables

Green Screen Hazard Ratings																			
Group I Human					Group II and II* Human							Ecotox		Fate		Physical			
Carcinogenicity	Genotoxicity/ Mutagenicity	Reproductive Toxicity	Developmental Toxicity	Endocrine Activity	Acute Toxicity	Systemic Toxicity		Neurotoxicity	Skin Sensitization*		Respiratory Sensitization*	Skin Irritation	Eye Irritation	Acute Aquatic Toxicity	Chronic Aquatic Toxicity	Persistence	Bioaccumulation	Reactivity	Flammability
						single	repeated		single	repeated									
L	L	L	M	M	L	L	L	VH	H	L	DG	L	L	H	H	VL	L	M	L

- **Chemical class association**

through automated structure searches & collaboration

- Chlorobenzenes
- Di-n-octyltins
- Hexane isomers
- Alkyl lead compounds

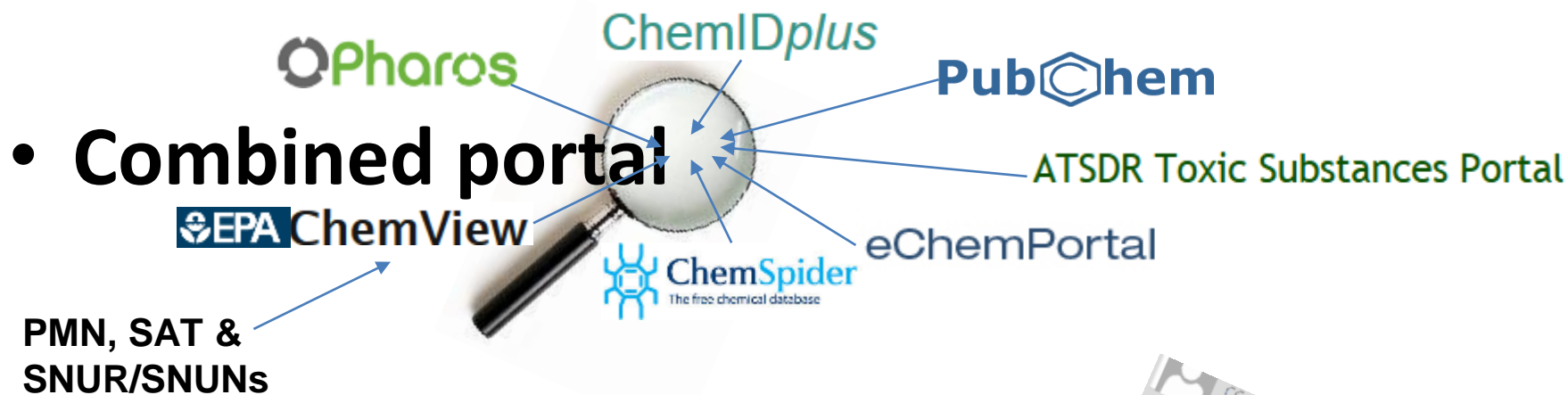
- **CASRN disambiguation**

ID chemical substances in materials

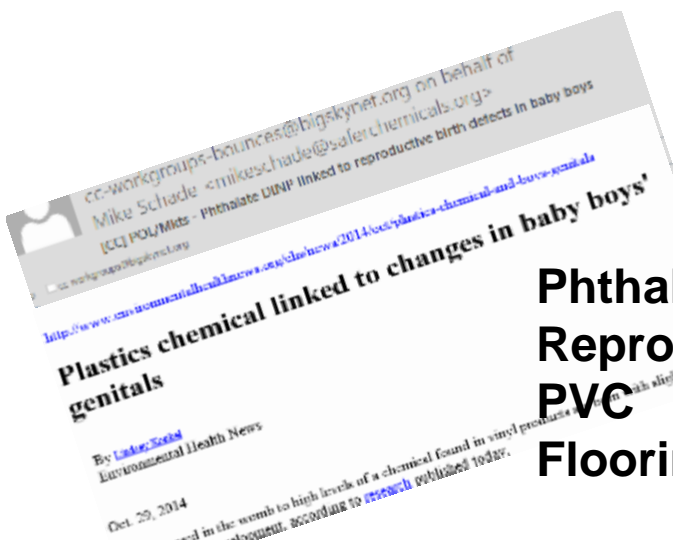
- Fly ash
- Polymers
- Mixtures

# Chemical Data Commons project

## Full Assessment support



- **Hazard specific science registry**



**Phthalates**  
**Reproductive**  
**PVC**  
**Flooring**



# Chemical Data Commons project Alternatives Assessment support

- **Assessment Builder**

Can	Ge	Mi	Reproc	Develop	Endo	Act	Syst		Ne		Skin 1	Ri	Ser	Ski	Ev	Acute 1	Chronic	Pi	Bloa	R	File
							single	repeated	single	repeated											
L	L	L	M	M	L	L	L	L	VH	H	L	DG	L	L	L	H	H	VL	L	M	L



- **Marketplace for Full Assessments**

**KICKSTARTER**

- **Functional Use registry & search**

- **Collaborative work space**

- Surfactant
- Binder – particle board
- Plasticizer
- Flame retardant



# Pharos Chemical & Material Library

Handle your hazard screening needs

## Data Commons

Resolve gnarly IDs challenges

Close the assessment gap

Seek alternatives

Healthy Building Network







Tom Lent

Healthy Building Network  
tlent@healthybuilding.net

[www.pharosproject.net](http://www.pharosproject.net)





# CompAIR - Product Portfolio

[+ Add a product](#)

To compare two products, select the checkboxes next to them and click "Compare" below. The products are arranged in order of volatile content, with the lowest volatile content at the top.

Product	Company	Volatiles (lbs/1000ft <sup>2</sup> ) <span>ⓘ</span>		
<input type="checkbox"/> Premium Plus Exterior Satin (no water entry)	Behr (Home Depot)	0 - 0.13	<div style="width: 10%;"></div>	<input type="checkbox"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/> Premium Plus Ultra Exterior Satin w/nanoguard	Behr (Home Depot)	0.0025 - 0.13	<div style="width: 10%;"></div>	<input type="checkbox"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/> Resilience (no water entry)	Sherwin-Williams	0.19 - 0.23	<div style="width: 15%;"></div>	<input type="checkbox"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/> SuperPaint Exterior Latex Satin (no water entry)	Sherwin-Williams	0.2 - 0.24	<div style="width: 15%;"></div>	<input type="checkbox"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/> Emerald Exterior Satin (no water entry)	Sherwin-Williams	0.25 - 0.33	<div style="width: 20%;"></div>	<input type="checkbox"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/> Pro Exterior Satin	Behr (Home Depot)	0.23 - 0.37	<div style="width: 20%;"></div>	<input type="checkbox"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/> Aura Exterior Low Lustre (no water entry)	Benjamin Moore	0.15 - 0.41	<div style="width: 25%;"></div>	<input type="checkbox"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/> Tom's test product #1	Tom's toothpaste	0 - 0.7	<div style="width: 70%;"></div>	<input type="checkbox"/> <input type="text"/> <input type="text"/>

Area size (optional)  ft<sup>2</sup> ▼

# CompAIR - Pro Exterior Satin

## Weight Volatiles Per Area Calculation

$$\frac{58 \text{ wt\% volatiles}}{\text{wt product}} \times \frac{10.23 \text{ lb}}{1 \text{ gal}} \times \frac{1 \text{ gal}}{128 \text{ fl oz}} \times \frac{1 \text{ fl oz}}{250-400 \text{ ft}^2} \times \frac{2 \text{ coats required}}{1} = \frac{0.23-0.37 \text{ lb volatiles}}{1000 \text{ ft}^2}$$

## Product Data Summary

% Solids	% Water	Density	Coverage Area	Coats Required	Volatiles (lbs/1000ft <sup>2</sup> )
42	0	10.23 lb/gal	250-400 ft <sup>2</sup> /fl oz	2	0.23-0.37

## Source Documentation

[Add a source](#)

No documentation has been added yet for this product.