November 19, 2020

Chemical and Building Product Data in Pharos

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Ryan Johnson, Materials Researcher

HBN HEALTHY BUILDING NETWORK
KNOW BETTER

HEALTHY BUILDING NETWORK

MISSION

To advance human and environmental health by improving hazardous chemical transparency and inspiring product innovation

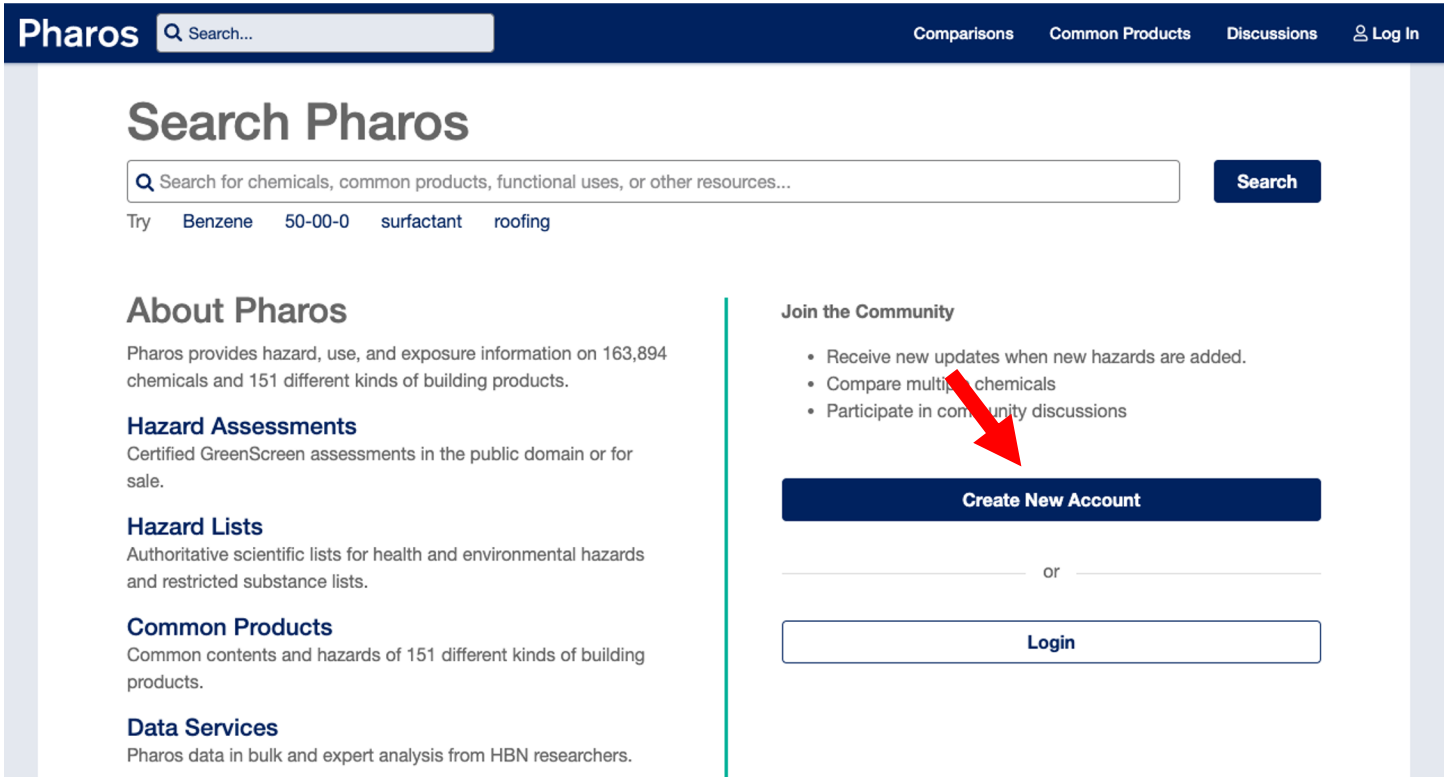
About Pharos

A comprehensive independent database of chemicals, polymers, metals and materials

- Hazard data for >129,000 chemicals from 45 hazard lists
- Functional use data show where and why chemicals are used
- Process chemistry data identifies possible contaminants
- Common products catalog substances in building products

Sign Up for Free

https://pharosproject.net/



Account Types

links to Pharos page discussed on slide

BASIC	PROFESSIONAL	ENTERPRISE
• 1 User • Hazard, exposure, and function data for 166,427 chemicals • 1 Chemical Comparison • Max 50 Chemicals in Comparisons • Access to Discussion forums • Access to Common Products	• 1 User • Hazard, exposure, and function data for 166,427 chemicals • 10 Chemical Comparisons • Max 500 Chemicals in Comparisons • Access to Discussion forums • C2C List Hazards • Email Notifications on Hazard Updates • Download hazards of a chemical (example) • Download chemicals in a compound group (example) • Download chemicals in a hazard list (example) • Access to Common Products (including All Contents)	• Multiple Users! • Hazard, exposure, and function data for 166,427 chemicals • *Unlimited* Chemical Comparisons • Max 500 Chemicals in Comparisons • Access to Discussion forums • C2C List Hazards • Email Notifications on Hazard Updates • Download hazards of a chemical (example) • Download chemicals in a compound group (example) • Download chemicals in a hazard list (example) • Access to Common Products (including All Contents) • Customized Data Download • API Access
	$50.00/month	—
	$500.00/year	Contact Us
	Choose Professional: Monthly Yearly	**Choose Enterprise:** Contact Us

The features and pricing are current as of November, 2020 and may change at any time. If you're viewing a recording, please check for updates at https://pharosproject.net/plans.

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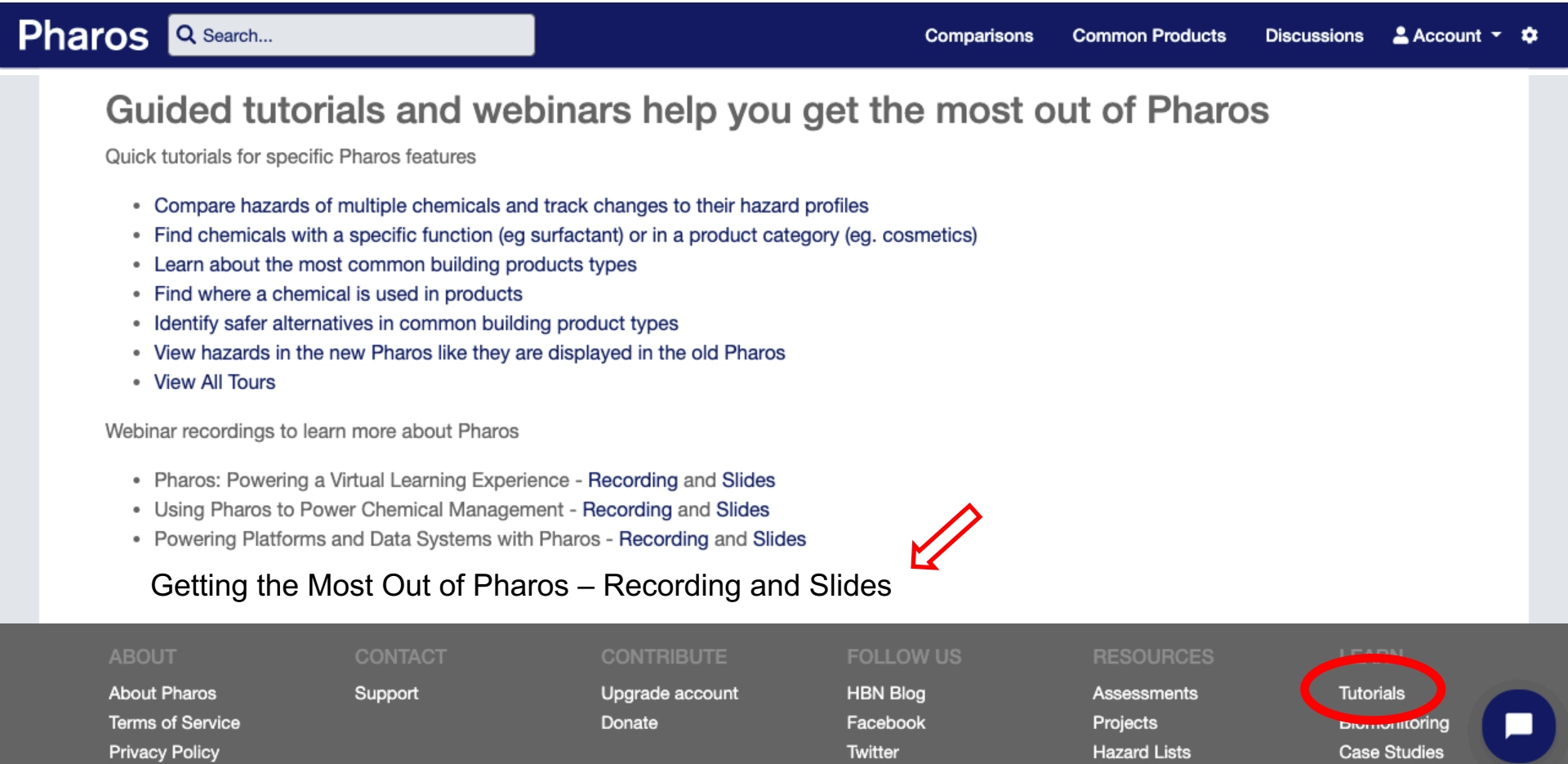
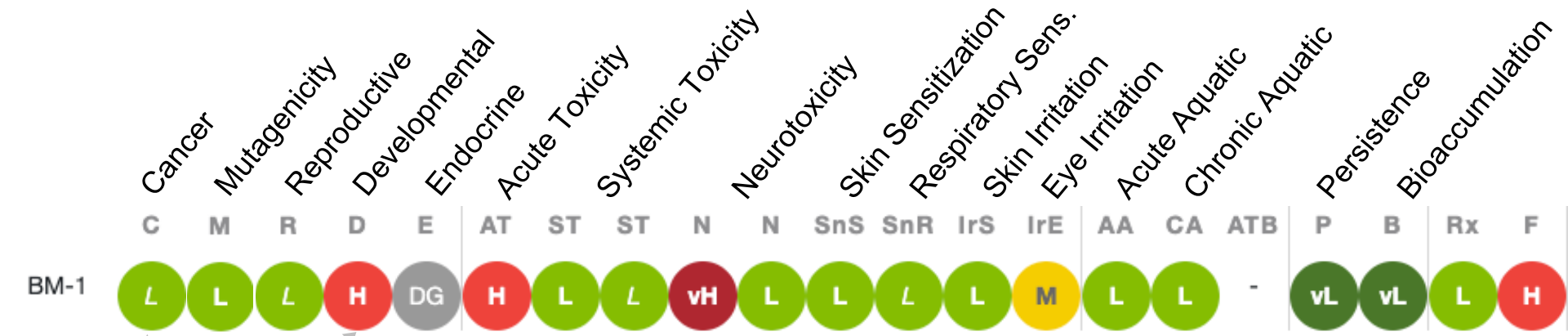
Tutorials and Webinars



Pharos Displays Hazards in GreenScreen® Format



NOAEC = 1.9 mg/L air

US NIH - Reproductive & Developmental Monographs - Insufficient Evidence for a Conclusion

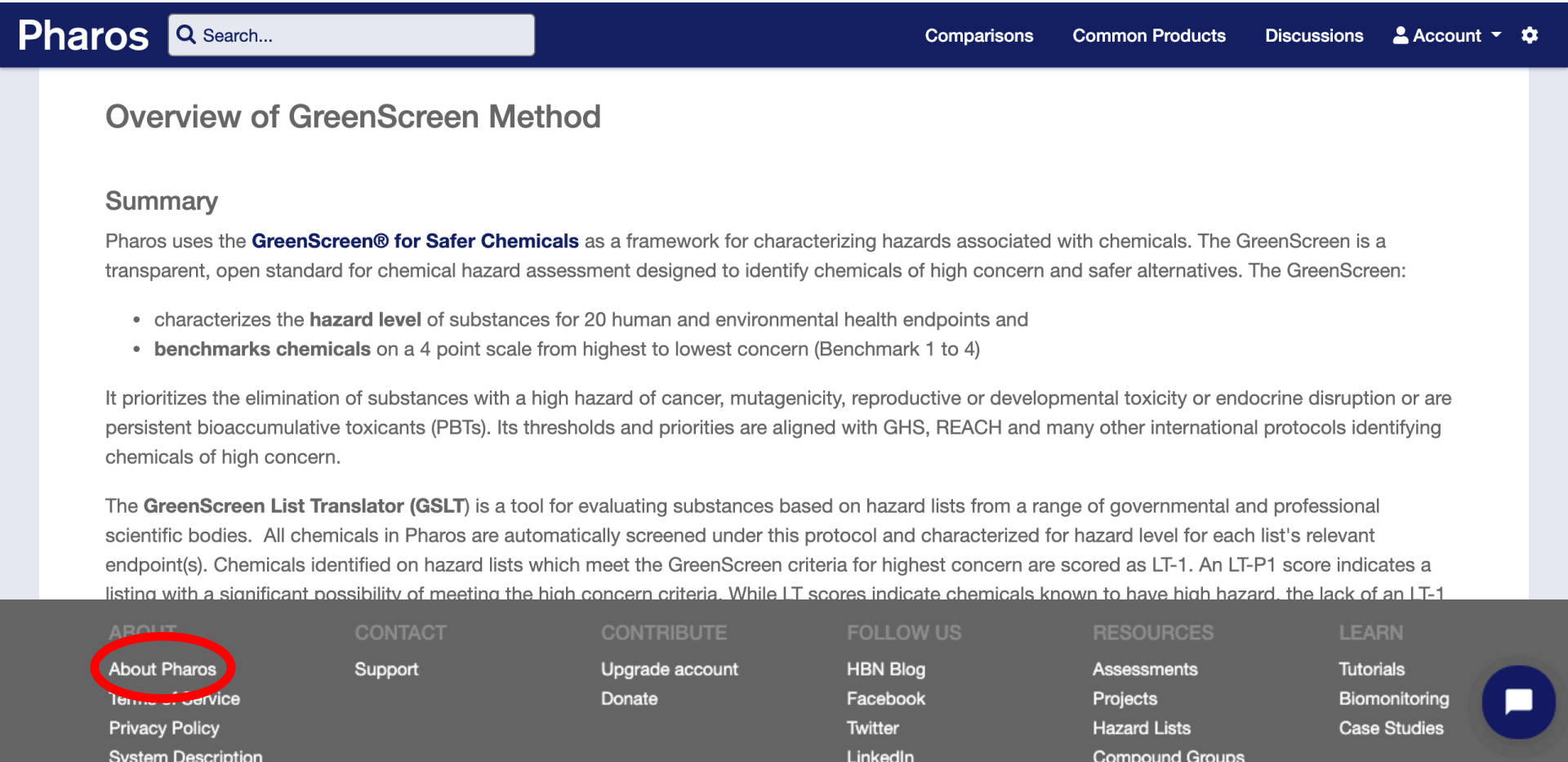
WP2uvrA (reverse mutation) (+/- S9) = negative

Micronucleus ICR mouse, single dose, gavage:
8410 mg/kg bw = negative

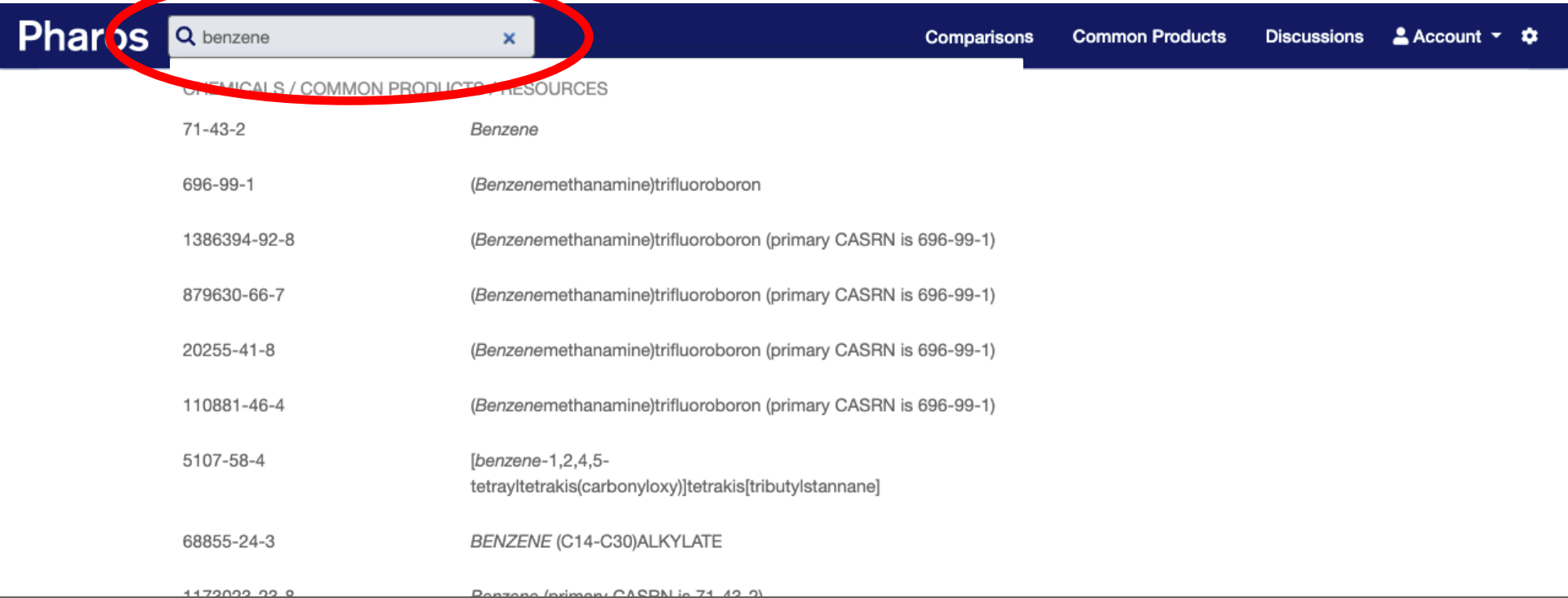
papillary lung adenomas in males
(6/52 vs. 1/52 in the control)

GreenScreen is a product of Clean Production Action

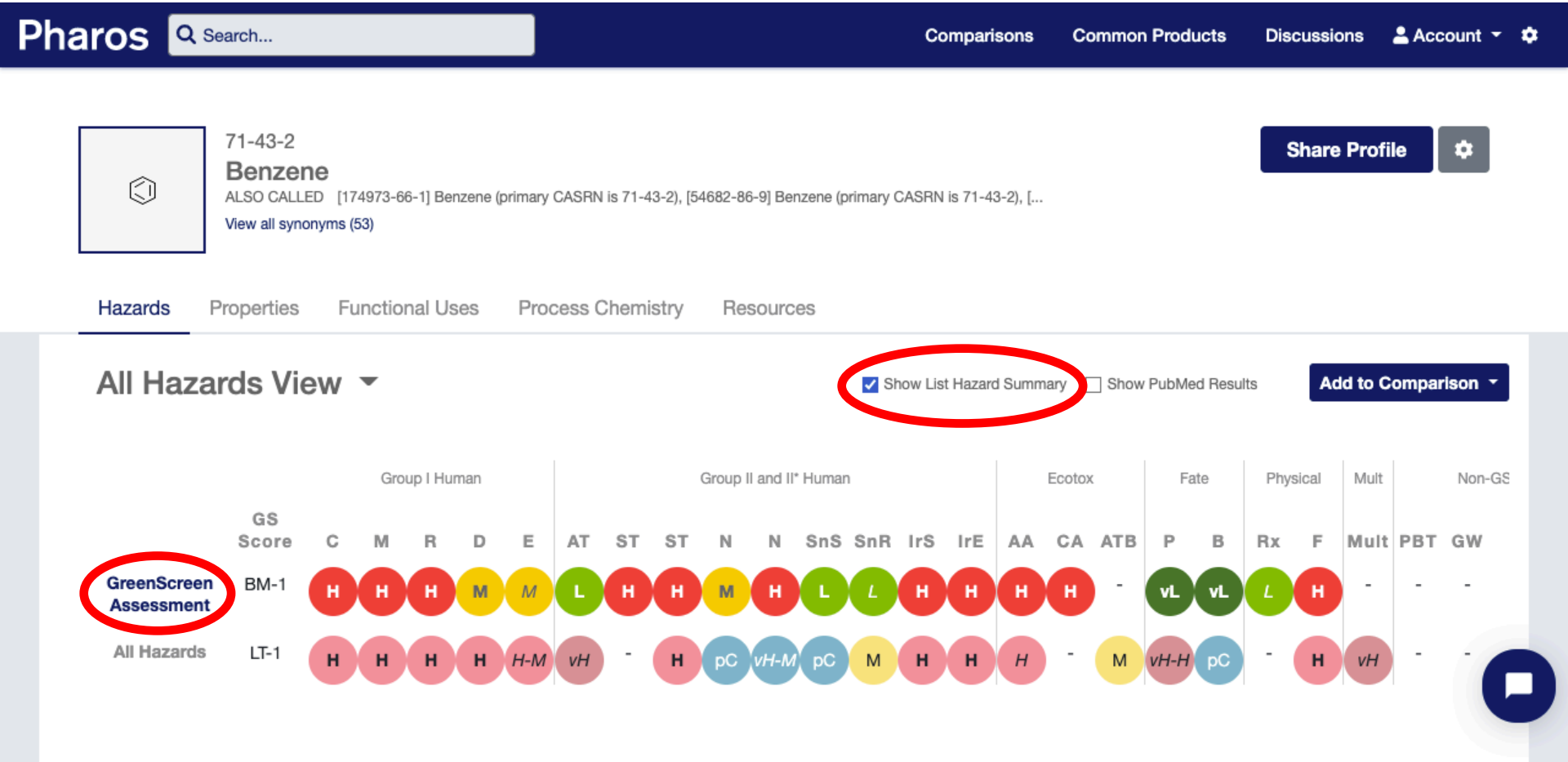
GreenScreen® Description Available in Pharos



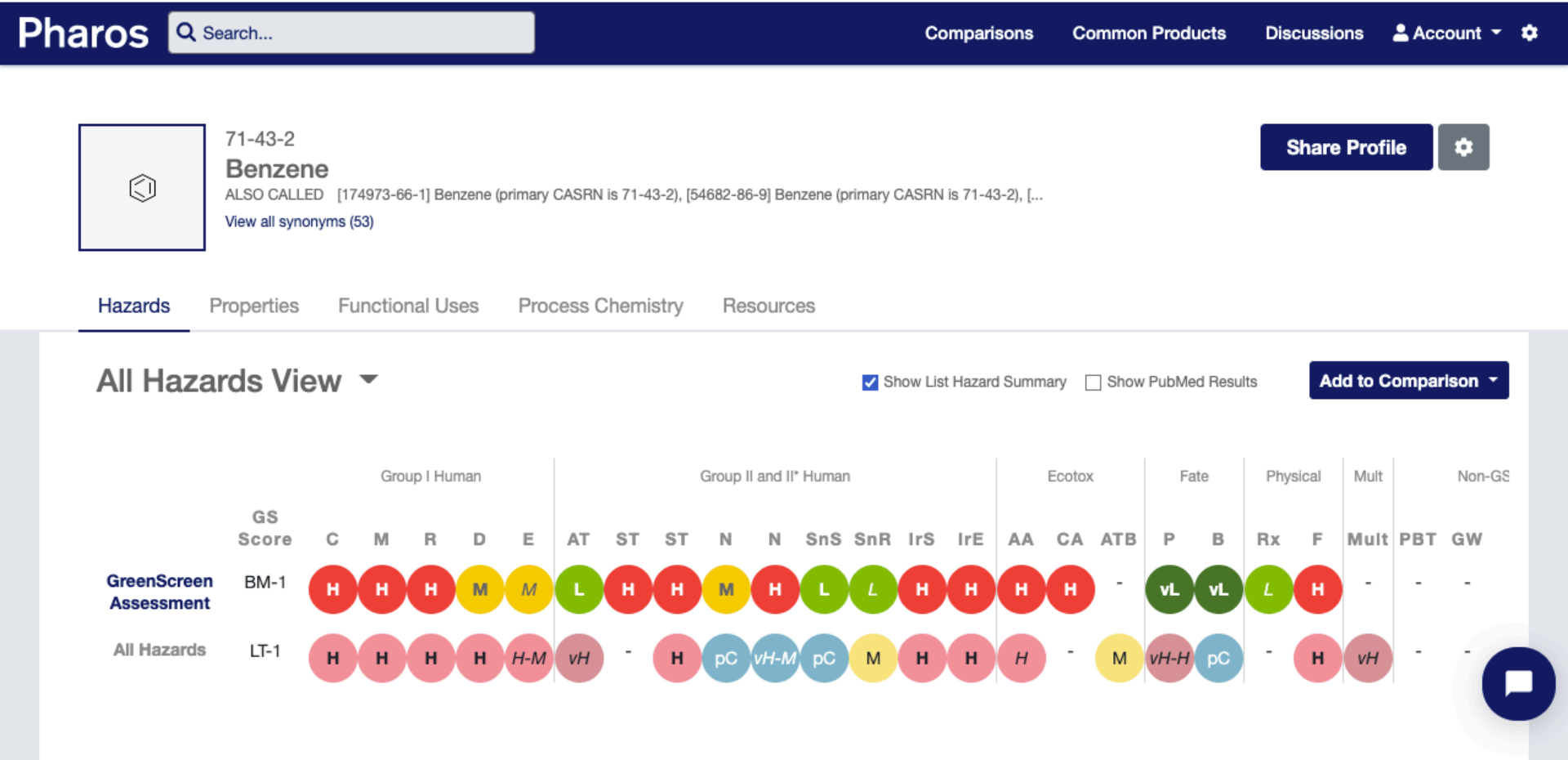
Chemical Hazards: Search for a Chemical



Chemical Hazards: View Hazards



Chemical Hazards: View List-Based Hazards



Chemical Hazards: Download all Hazards of a Chemical

Hazard Lists

Professional Feature ⇨ Download Lists

ENDPOINT	HAZARD LEVEL	GS SCORE	LIST NAME	HAZARD DESCRIPTION	OTHER LISTS
Carcinogenicity	H	LT-1	CA EPA - Prop 65	Carcinogen	+17
Mutagenicity/Genotoxicity	H	LT-1	EU - Annex VI CMRs	Mutagen - Category 1B	+9
Reproductive Toxicity	H	LT-1	CA EPA - Prop 65	Reproductive Toxicity - Male	+2
Developmental Toxicity incl. developmental neurotoxicity	H	LT-1	CA EPA - Prop 65	Developmental toxicity	
Endocrine Activity	H-M	LT-P1	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor	
Acute Mammalian Toxicity	vH	LT-UNK	GHS - New Zealand	6.1B (dermal) - Acutely toxic	+7

Chemical Hazards: Restricted Substance Lists

Hazard Lists

Professional Feature ⇨ Download Lists

ENDPOINT	HAZARD LEVEL	GS SCORE	LIST NAME	HAZARD DESCRIPTION	OTHER LISTS
Carcinogenicity	H	LT-1	CA EPA - Prop 65	Carcinogen	+17
Mutagenicity/Genotoxicity	H	LT-1	EU - Annex VI CMRs	Mutagen - Category 1B	+9
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Endocrine Activity	H-M	LT-P1	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor	
Acute Mammalian Toxicity	vH	LT-UNK	GHS - New Zealand	6.1B (dermal) - Acutely toxic	+7

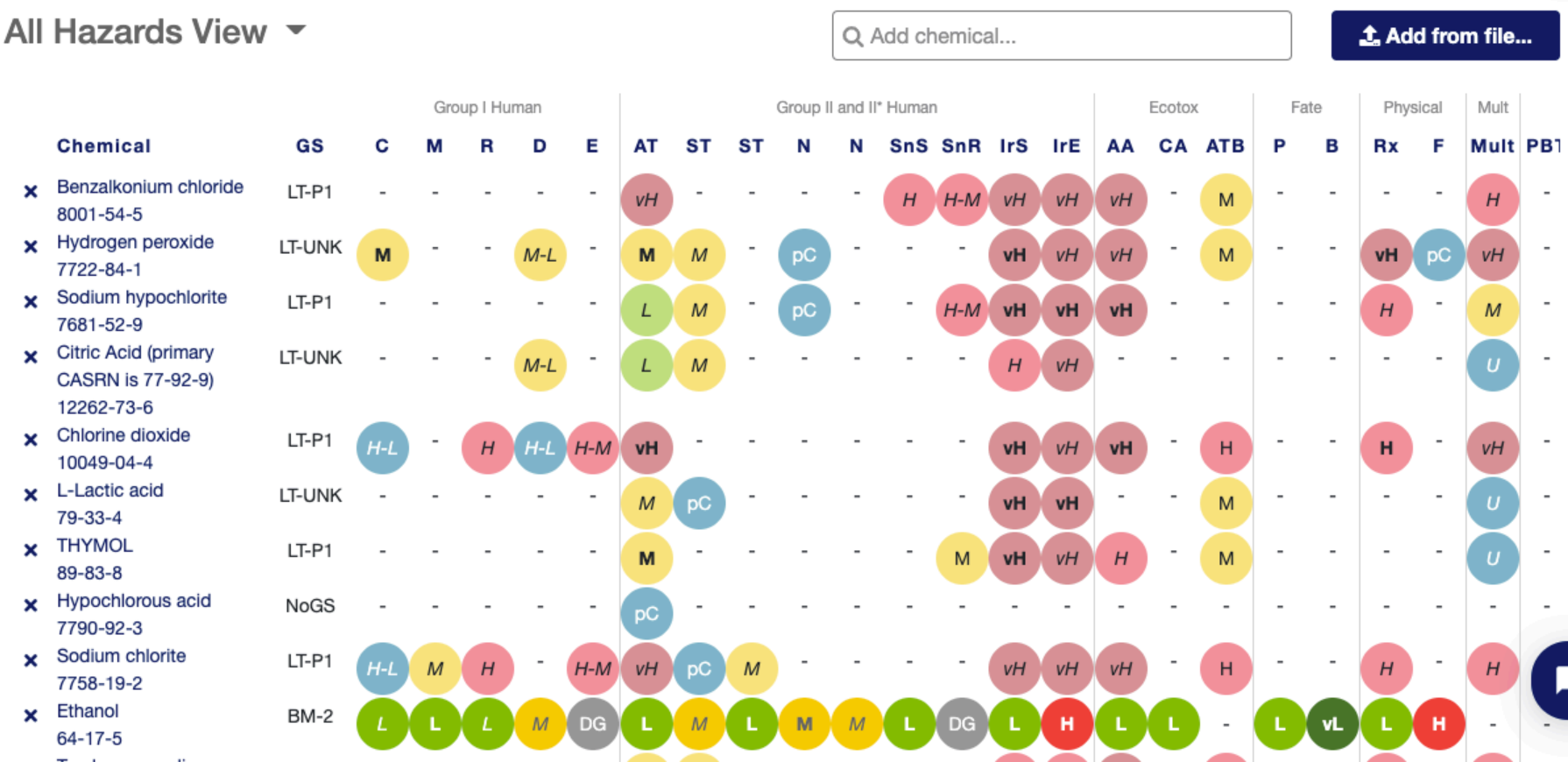
Chemical Hazards: Restricted Substance Lists

Systemic Toxicity/Organ Effects (Single Exposure - Aspiration Hazard)	H	LT-UNK	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways	+1
Carcinogenicity,Mutagenicity/Genotoxicity Reproductive Toxicity, Developmental Toxicity, Acute Mammalian Toxicity, or System Toxicity/Organ Effects.	U	LT-UNK	Québec CSST - WHMIS 1988	Class D2A - Very toxic material causing other toxic effects	+1

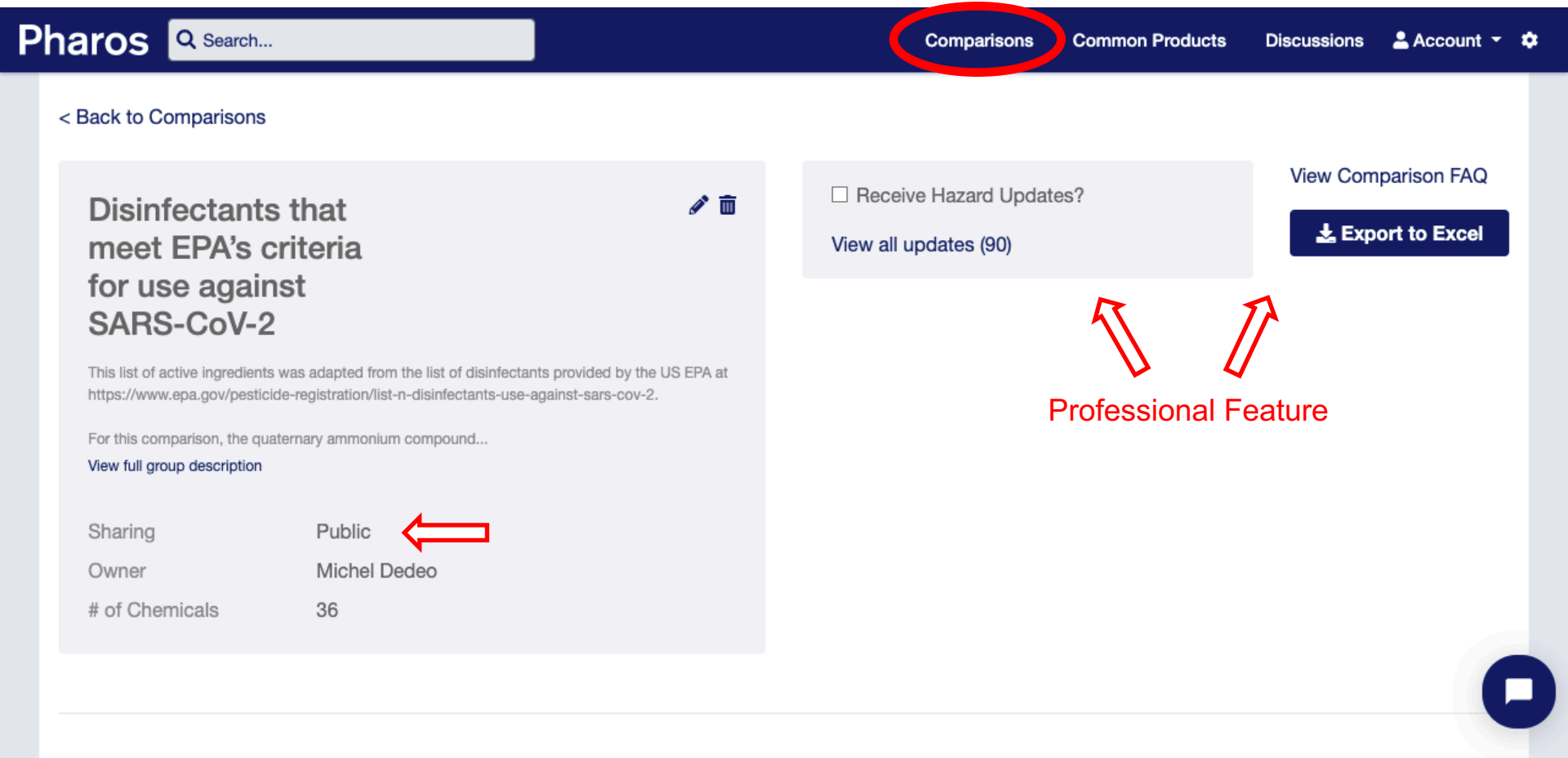
Restricted Substance Lists (21)

- BIFMA - e3/level Annex B list of chemicals: 2019 Substance of Concern List
- BIFMA - e3/level Annex B list of chemicals: V3 2014 Substance of Concern List
- C2C Certified™ - v4 RSL: Children's Products
- C2C Certified™ - v4 RSL: Core Restrictions
- C2C Certified™ - v4 RSL: Formulated Consumer Products
- CA SCP - Candidate Chemicals: Candidate Chemical List
- CPA - Chemical Footprint: CoHC List (non SVHC)
- EU - Cosmetics Regulation: Annex II - Prohibited Substances
- EU - PACT-RMOA Substances: Substances selected for RMOA or hazard assessment
- EU - REACH Annex XVII non-CMRs: Substances restricted under REACH
- Health Canada - Cosmetic Ingredient Hotlist: Ingredients that are Prohibited for Use in Cosmetic Products

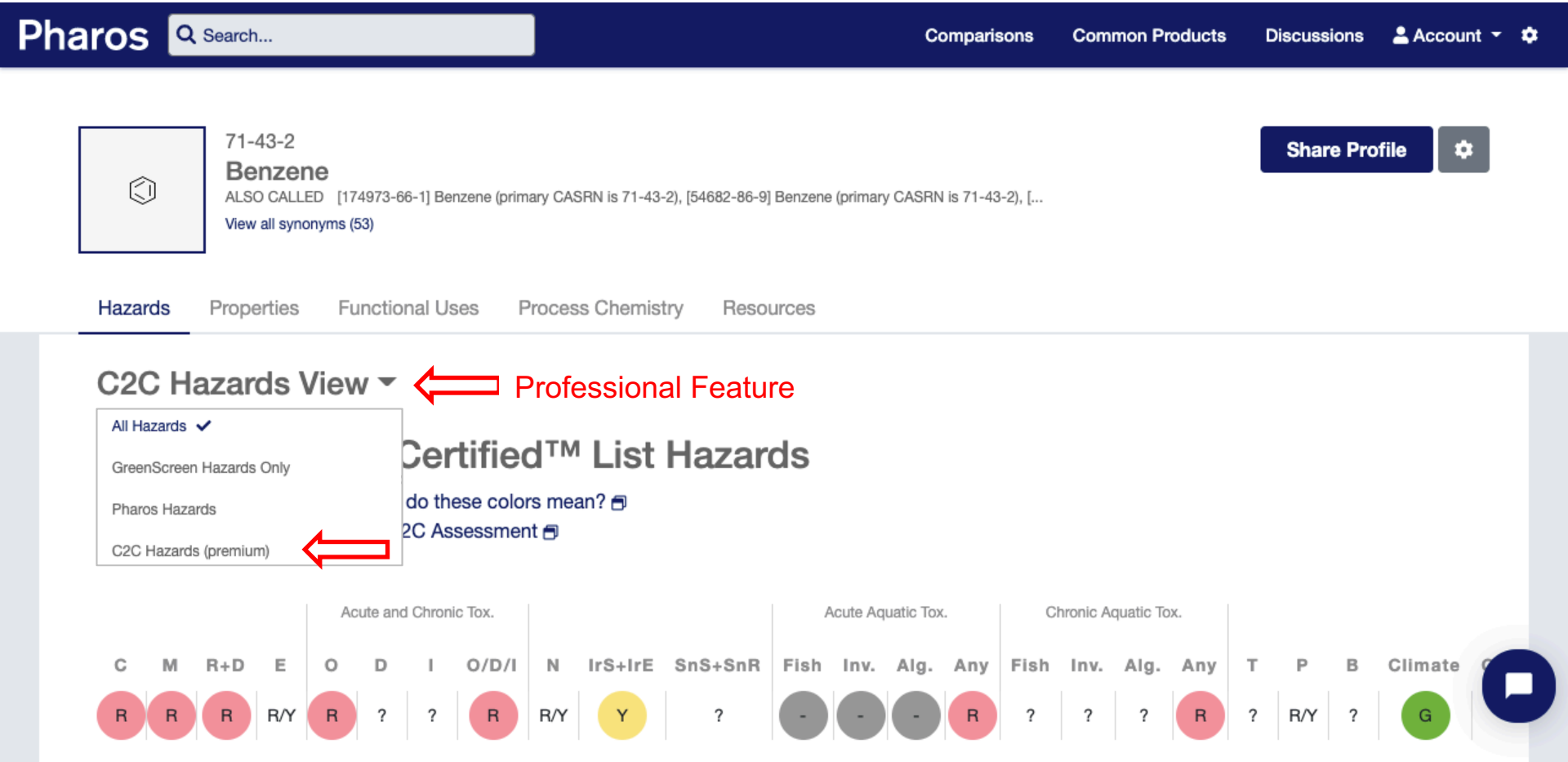
Chemical Hazards: Compare Hazards



Chemical Hazards: Compare Hazards



Chemical Hazards: View hazards through Cradle2Cradle filter



Chemical Hazards: Browse GreenScreen Assessments

Search assessments by name or CASRN

Search

Assessments (918)

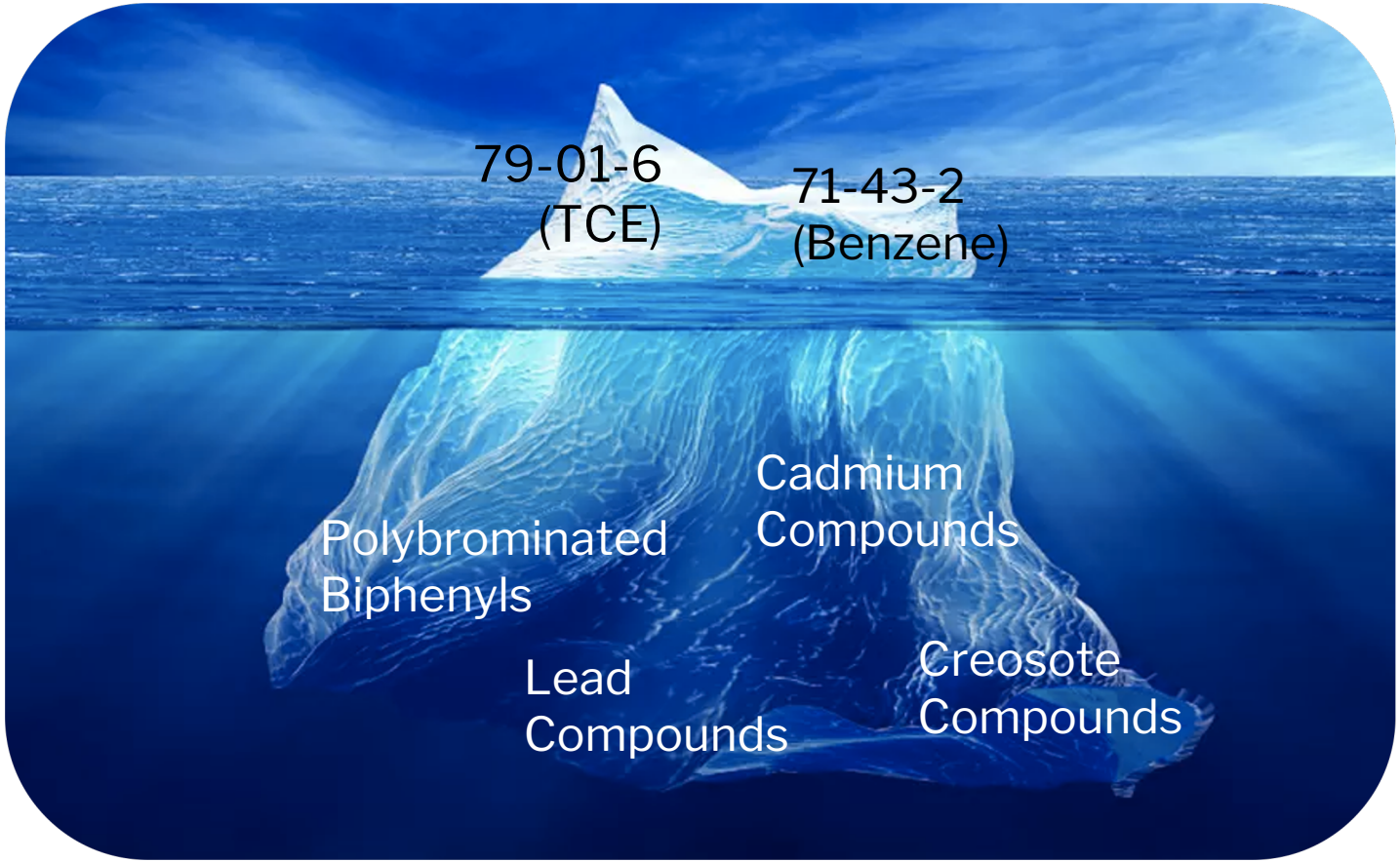
ASSESSMENT TITLE	CASRN	DATE	PROFILER	BENCHMARK	AVAILABILITY
Inorganic Lead Compounds Including Lead Acetate, Lead Phosphate, and Lead Subacetate		03/20/20	ToxServices LLC	1	Free
Benzenesulfonamide, 4-methyl-N-[[[3-[[(4-methylphenyl)sulfonyl]oxy]phenyl]amino]carbonyl]-)	232938-43-1	06/01/20	ToxServices LLC	2	Free

Compound Groups: Origins and Definition

Chemicals with a similar structure or composition
that share a hazard

Chemical	Type of Toxicity	CAS No.	Date Listed
Lasiocarpine	cancer	303-34-4	April 1, 1988
Lead	developmental, female, male	---	February 27, 1987
Lead and lead compounds	cancer	---	October 1, 1992
Lead acetate	cancer	301-04-2	January 1, 1988
Lead phosphate	cancer	7446-27-7	April 1, 1988
Lead subacetate	cancer	1335-32-6	October 1, 1989
Leather dust	cancer	---	April 29, 2011
Leuprolide acetate	developmental, female, male	74381-53-6	August 26, 1997

Compound Groups: Importance to List-based Screening



Prop 65 has ~900 chemicals listed explicitly

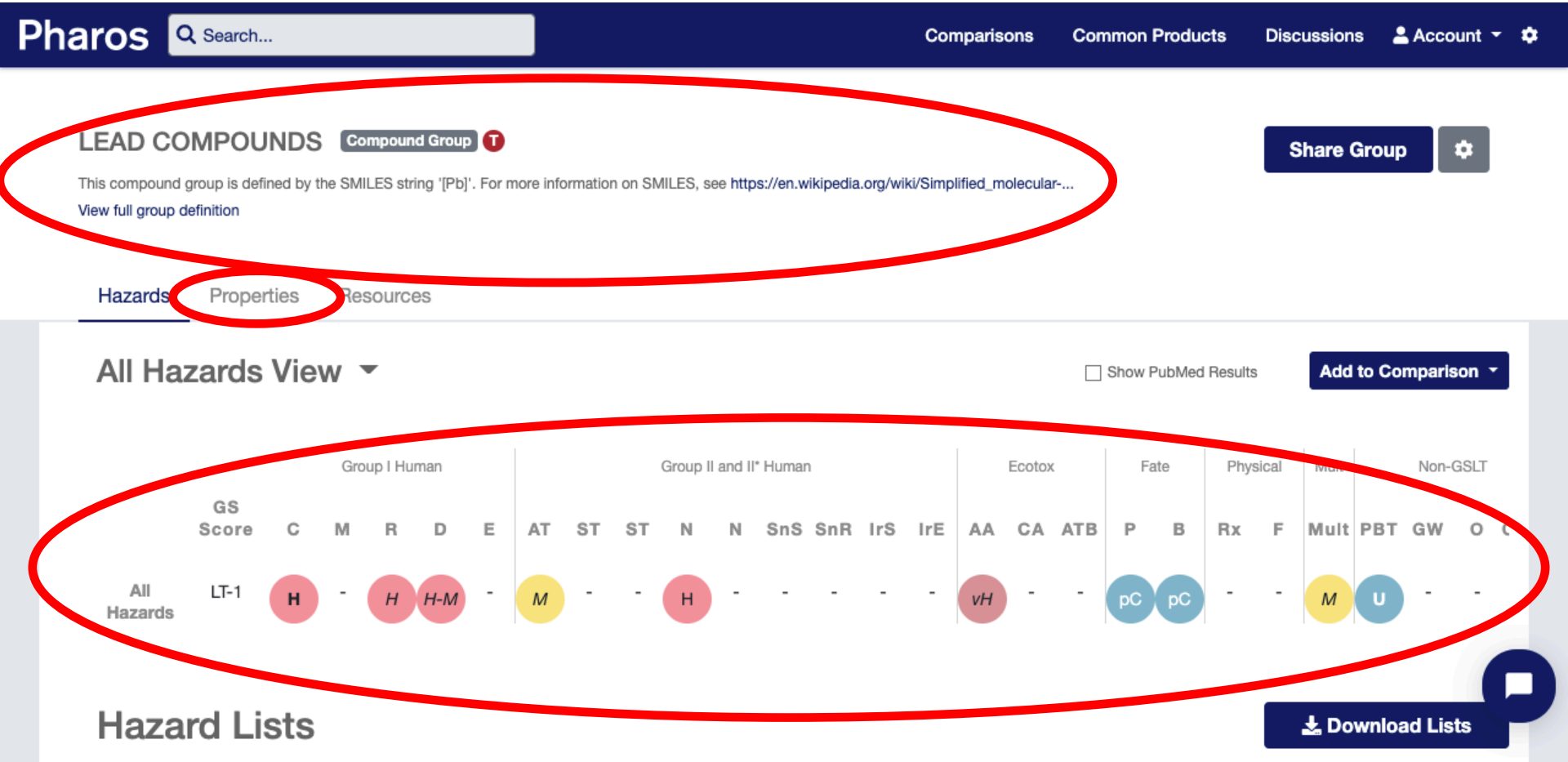
Prop 65 has 4200 chemicals in Pharos compound groups

Many only flagged as hazardous due to group membership

Compound Groups: Importance to List-based Screening

	A	B	C	D
1	SKU	Ingredient CAS	Ingredient Name	Prop65
2	HT-CC-SMA-SF	9002-88-4	Polyethylene	
3	HT-CC-SMA-SF	21645-51-2	Aluminum hydroxide, dried	
4	HT-CC-SMA-SF	24993-04-2	Nylon 6:66	
5	HT-CC-SMA-SF	65997-17-3	Fiberglass	
6	HT-CC-SMA-SF	1317-65-3	Limestone	
7	HT-CC-SMA-SF	13814-96-5	Lead fluoroborate	
8	WC-JT-MD-PP	25038-54-4	Policapram	
9	WC-JT-MD-PP	9002-88-4	Polyethylene	
10	WC-JT-MD-PP	21645-51-2	Aluminum hydroxide, dried	
11	WC-JT-MD-PP	65997-17-3	Fiberglass	
12	WC-JT-MD-PP	1317-65-3	Limestone	
13	WC-JT-MD-PP	598-63-0	Lead carbonate	
14	WC-JT-MD-PP	[illegible]	PERFLUOROHEXANOIC ACID (PFHxA, C-6)	
19994	HT-CC-LRG-SF	9003-07-0	Polypropylene	
19995	HT-CC-LRG-SF	13463-67-7	Titanium dioxide	
19996	HT-CC-LRG-SF	65997-17-3	Fiberglass	
19997	HT-CC-LRG-SF	1317-65-3	Limestone	
19998	HT-CC-LRG-SF	24993-04-2	Nylon 6:66	
19999	HT-CC-LRG-SF	1309-60-0	Lead dioxide	
20000	HT-CC-LRG-SF	25038-59-9	Polyethylene Terephthalate (PET)	

Compound Groups: Description and Hazards



Compound Groups: Members

Group Members (1,002)

Professional Feature ⇨ **Download Group**

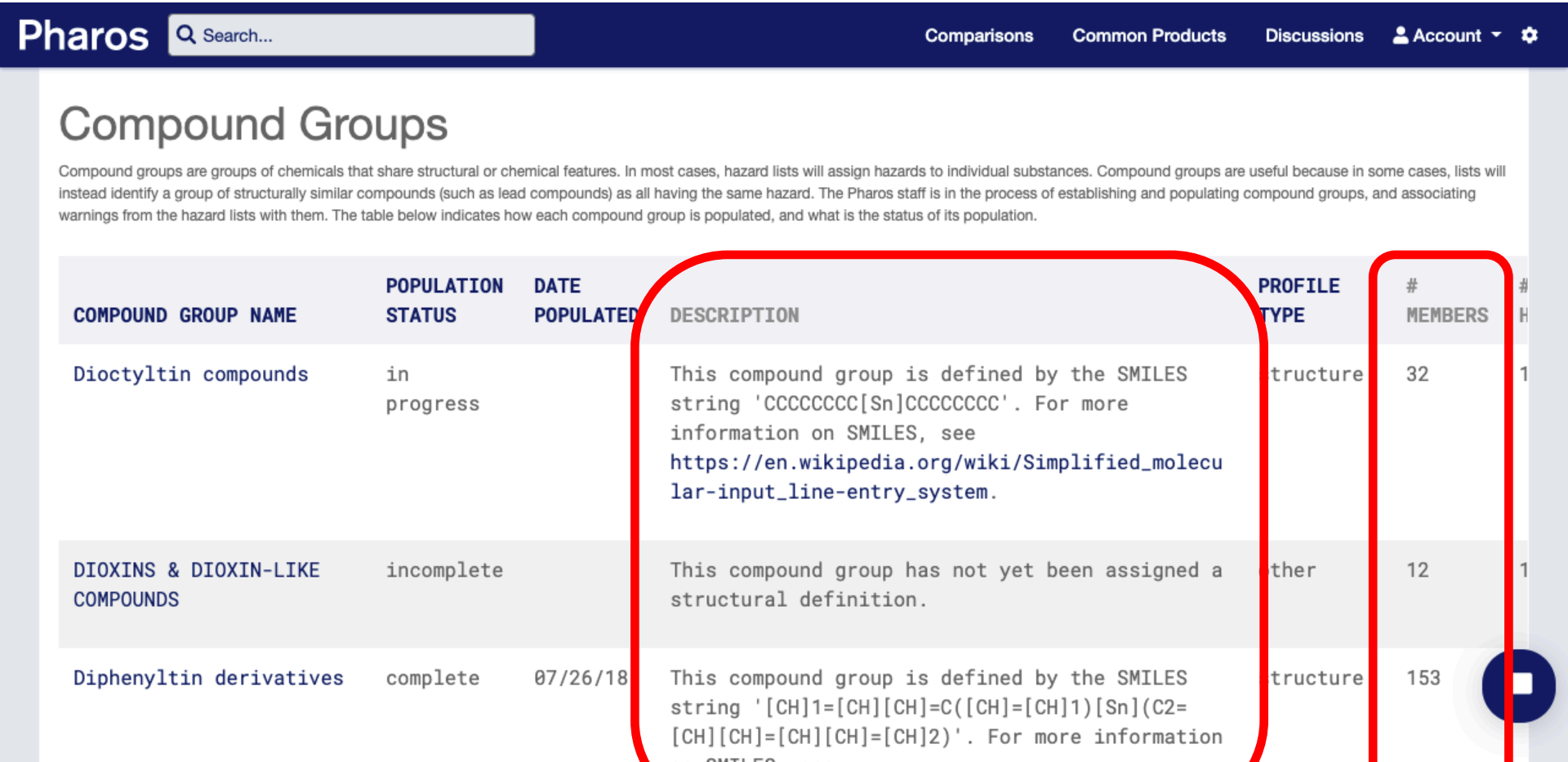
CASRN	CHEMICAL NAME
69011-06-9	(1,2-BENZENEDICARBOXYLATO(2-))DIOXOTRILEAD
11113-70-5	Silicic acid, chromium lead salt
17976-43-1	Dibasic lead phthalate
301-04-2	LEAD ACETATE
6080-56-4	LEAD ACETATE, TRIHYDRATE

Show all group members...

Related Groups

- Toxic Heavy Metals

Compound Groups: Browse List



Hazard Lists: Browse Lists

HBN uses access to authoritative scientific lists for specific human and environmental health hazards and restricted substance lists to identity key health and environmental information.

View All Lists

Filter Lists

NAME		AGENCY
AOEC - Asthmagens Chemical Hazard List	The AOEC is a non-profit organization dedicated to "[facilitating] the prevention...	Association of Occupational and Environmental Clinics (AOEC)
BIFMA - e3/level Annex B list of chemicals Chemical Hazard List	The BIFMA Level Sustainability Certification for Furniture provides credit to applicants...	Business and Institutional Furniture Manufacturers Association (BIFMA)
Boyes - Neurotoxicants Chemical Hazard List	This is a list of chemicals for which there exist occupational exposure	Pattys Toxicology: author William K Boyes

Hazard Lists: List Details

Boyes - Neurotoxicants

Chemicals with occupational exposure standards based on nervous system effects (Boyes 2001)

This is a list of chemicals for which there exist occupational exposure standards based on known...

View full description

Agency	Pattys Toxicology: author William K Boyes
Updated	2017-12-24
Website	onlinelibrary.wiley.com/doi/10.1002/0471435139.tox025.pub2/abstract

Hazards | Chemicals on List (2,421)

ENDPOINT	HAZARD RATING AND DESCRIPTION	GS SCORE	HPD	C2C
Neurotoxicity-Repeated Exposure	vH-L Neurotoxic	LT-UNK		Neurotoxicity (Red, Yellow, or Green)
Developmental Toxicity incl. developmental neurotoxicity	H-L Developmental Neurotoxicity	LT-UNK		Reproductive Toxicity (Repro + Dev) (Red, Yellow, or Green)

Hazard Lists: Chemicals in List

Boyes - Neurotoxicants

Chemicals with occupational exposure standards based on nervous system effects (Boyes 2001)

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Hazards | Chemicals on List (1,252)

Filter by Hazard

Professional Feature ⇒ Download List

Developmental Neurotoxicity x

CASRN	CHEMICAL NAME
68901-12-2	.alpha.-D-Glucopyranose, 1-(dihydrogen phosphate), lead salt
69011-06-9	(1,2-BENZENEDICARBOXYLATO(2-))DIOXOTRILEAD

Hazard Lists: Search Lists by Hazard Endpoint

Boyes - Neurotoxicants

Chemicals with occupational exposure standards based on nervous system effects (Boyes 2001)

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Hazards | Chemicals on List (2,421)

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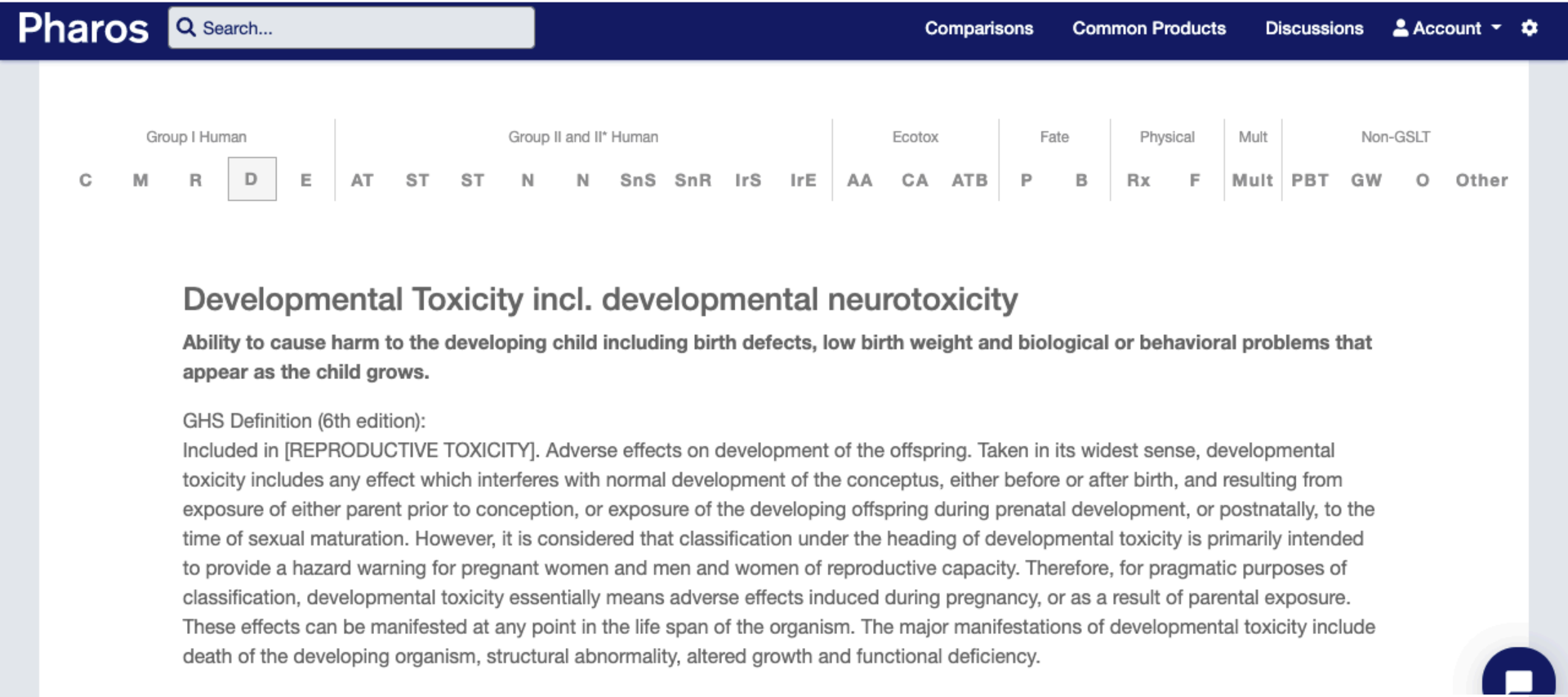
Developmental Toxicity incl. developmental neurotoxicity	H-L Developmental Neurotoxicity	LT-UNK		Reproductive Toxicity (Repro + Dev) (Red, Yellow, or Green)

Hazard Lists: Search Lists by Hazard Endpoint



Hazard Lists: Search Lists by Hazard Endpoint

Interested in a list of all chemicals that affect this endpoint? Request a quote.

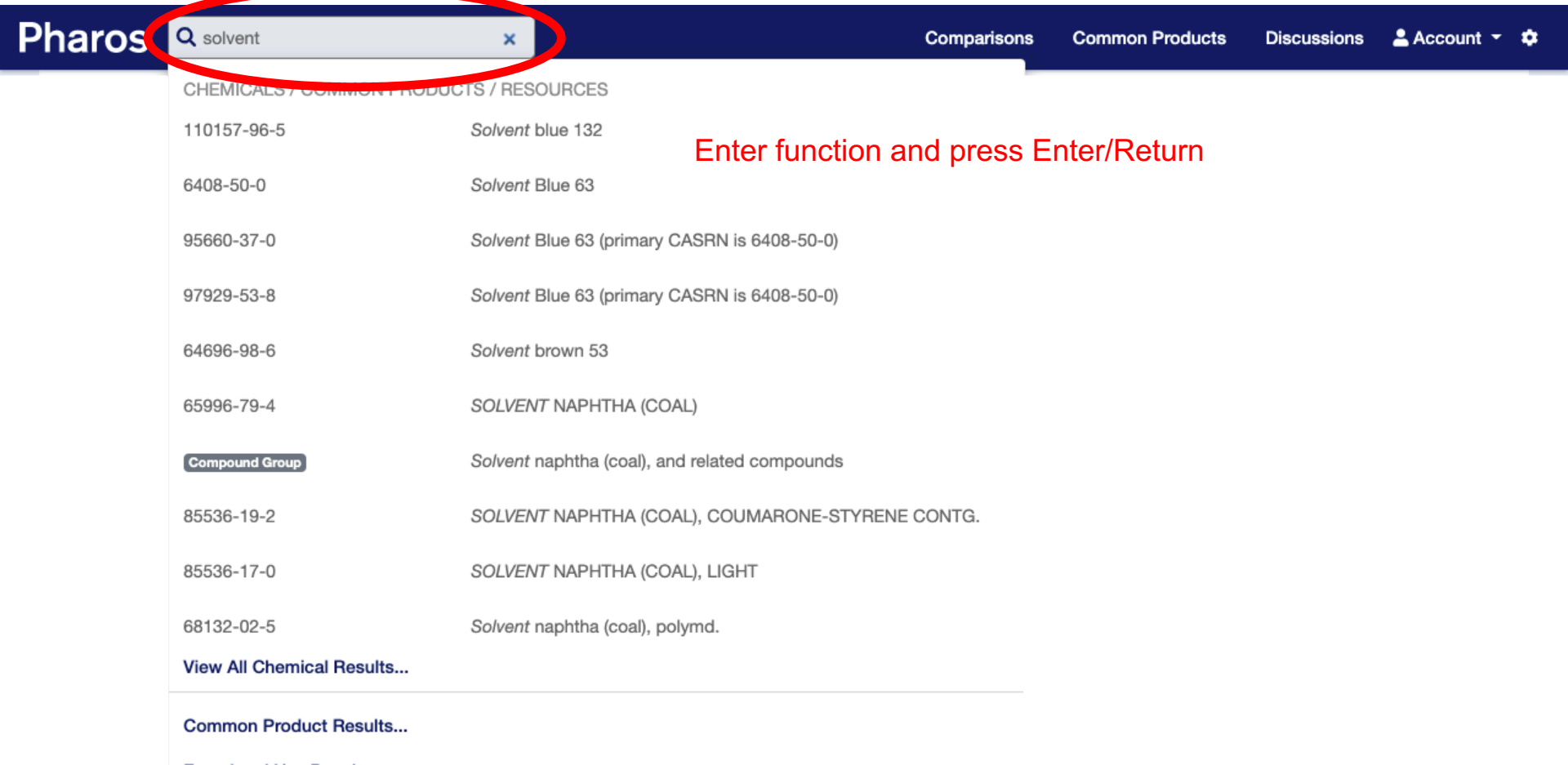
Hazard lists affecting this endpoint

HAZARD LIST	HAZARD RATING AND DESCRIPTION	GS SCORE	HPD	C2C
CA EPA - Prop 65	H Developmental toxicity	LT-1	Priority List	Reproductive Toxicity (Repro + Dev) (Red)
EU - GHS (H-Statements)	H H360D - May damage the unborn child	LT-1	Priority List	Reproductive Toxicity (Repro + Dev) (Red)
EU - GHS (H-Statements)	H H362 - May cause harm to breast-fed children	LT-1	Priority List	Reproductive Toxicity (Repro + Dev) (Red)
US NIH - Reproductive & Developmental Monographs	H Clear Evidence of Adverse Effects - Developmental Toxicity	LT-1	Priority List	Reproductive Toxicity (Repro + Dev) (Red, Yellow, or Green)
EU - GHS (H-Statements)	H-M H360Df - May damage the unborn child. Suspected of damaging fertility	LT-1	Priority List	Reproductive Toxicity (Repro + Dev) (Red)
EU - GHS (H-	H-M H360Fd - May damage fertility.	LT-1	Priority	Reproductive

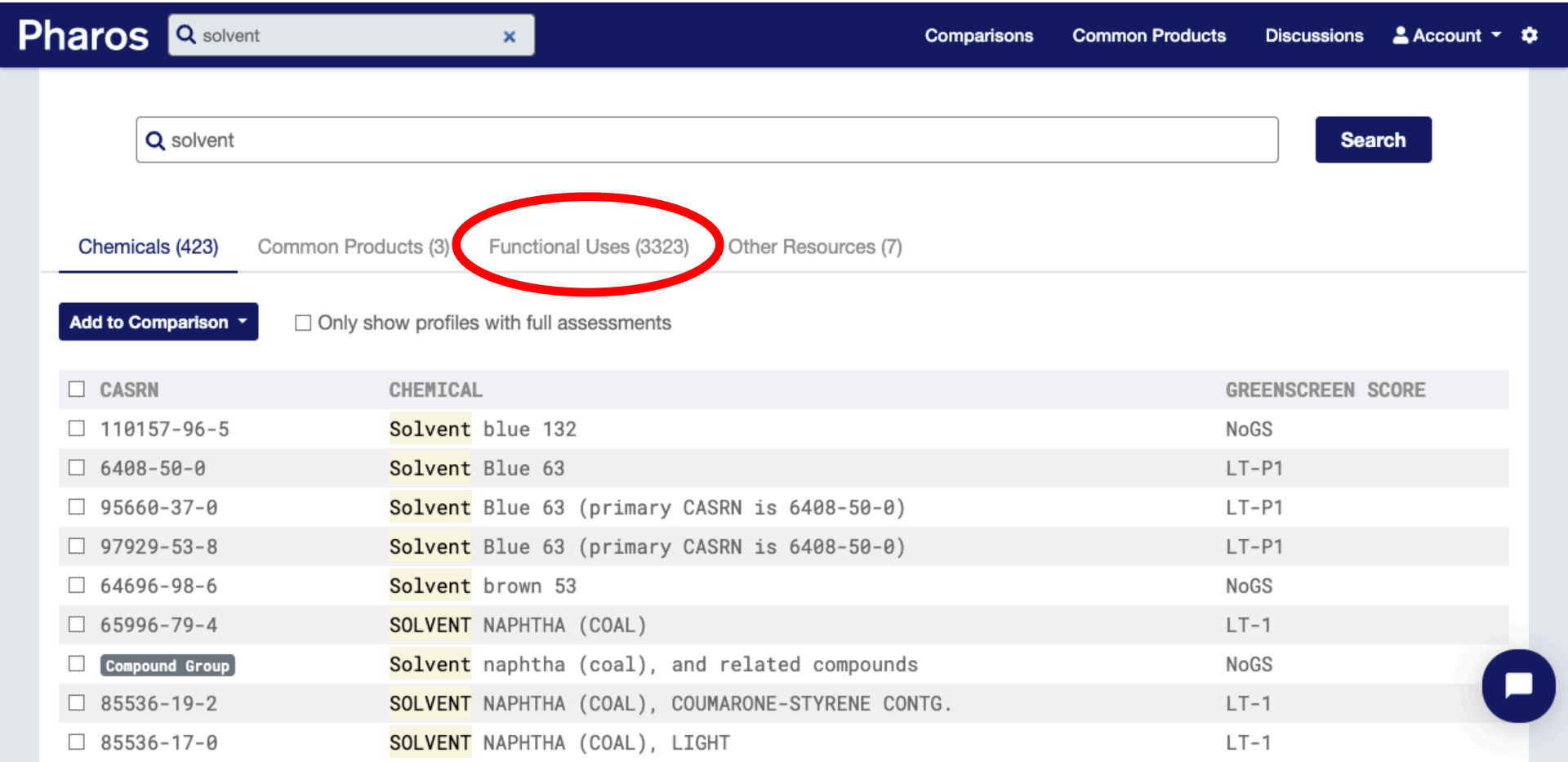
Functional Use Data: Search by Function

Search bar accepts functions as well as chemicals!

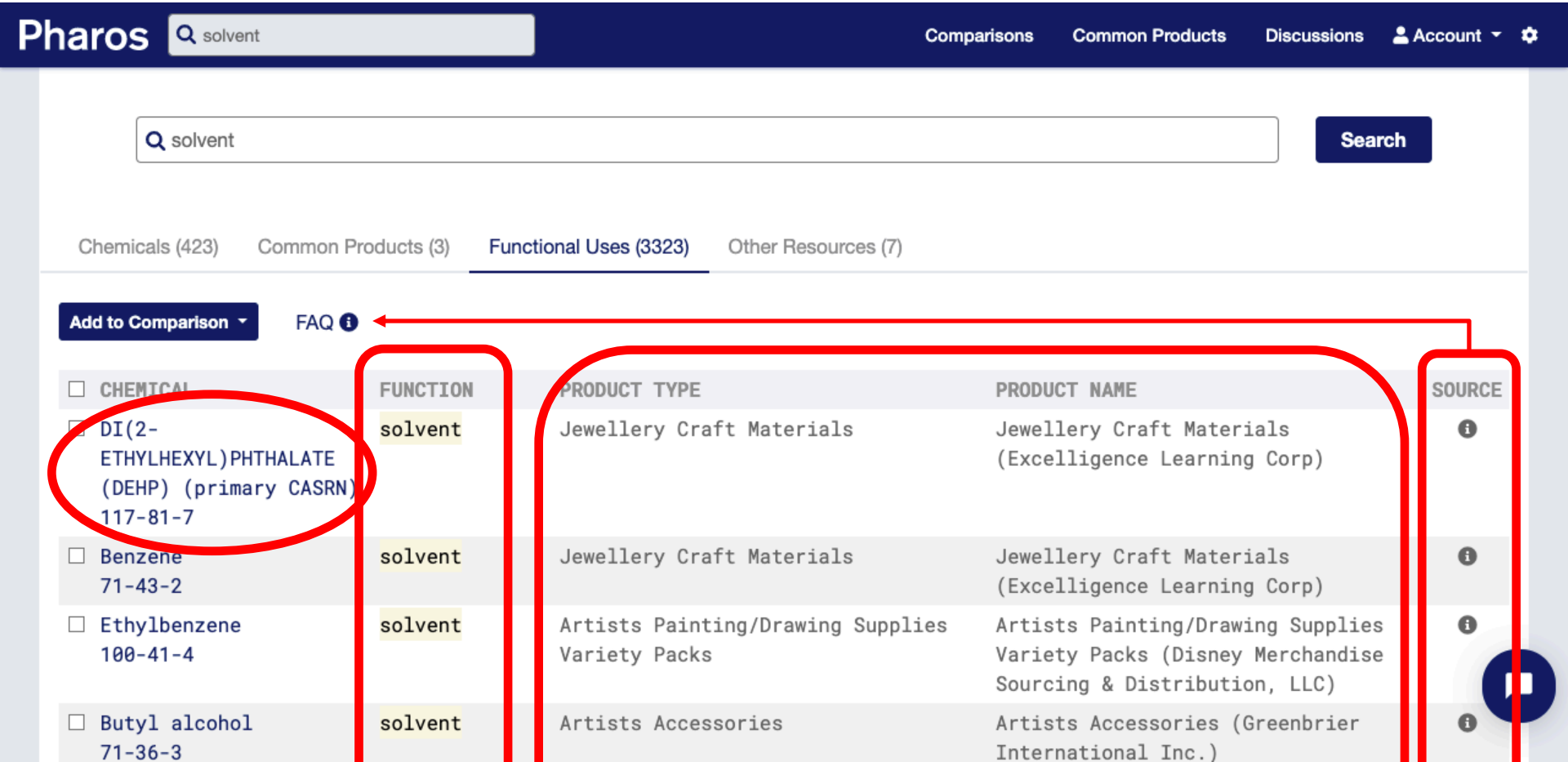
Functional Use Data: Search by Function



Functional Use Data: Search by Function

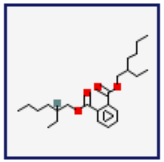


Functional Use Data: Search by Function



Functional Use Data: Functions of a Single Chemical

Pharos | Search... | Comparisons | Common Products | Discussions | Account



117-81-7

DI(2-ETHYLHEXYL)PHTHALATE (DEHP) (primary CASRN)

ALSO CALLED [109630-52-6] DI(2-ETHYLHEXYL)PHTHALATE (DEHP) (primary CASRN) (primary CASRN is 117-81-7), [126639-...

View all synonyms (132)

Share Profile

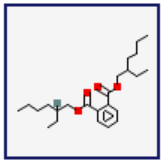
Hazards | Properties | Functional Uses | Process Chemistry | Resources

Functional Uses (898) FAQ

FUNCTION	PRODUCT TYPE	PRODUCT NAME	PERCENTAGE	SOURCE
Phthalate	Synthetic Turf (Tufted Polyolefin Backing, Crumb Rubber + Sand Infill)	Common Product	<0.01%	
Phthalate	Tire-derived Crumb Rubber	Common Product	0.00 - 0.01%	
plasticizer	Closed Cell Elastomeric Foam Pipe Insulation	Common Product	12.51%	
plasticizer	Cork Flooring (Floating Floor)	Common Product		

Deep Dive: Process Chemistry

Pharos | Search... | Comparisons | Common Products | Discussions | Account



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View all synonyms (132)

Share Profile

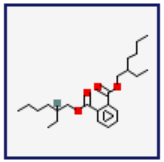
Hazards | Properties | Functional Uses | Process Chemistry | Resources

Known or Potential Residuals

CASRN	NAME	GS SCORE	TYPE	FREQUENCY	% WT	SOURCES
7664-93-9	Sulfuric acid	LT-P1	Catalyst (homogeneous/ unstructured/ unknown)	Frequent	Unknown	
104-15-4	p-Toluenesulfonic acid	LT-UNK	Catalyst (homogeneous/ unstructured/ unknown)	Frequent	Unknown	

Deep Dive: HBN and External Resources

Pharos | Search... | Comparisons | Common Products | Discussions | Account



117-81-7

DI(2-ETHYLHEXYL)PHTHALATE (DEHP) (primary CASRN) T

ALSO CALLED [15495-94-0] DI(2-ETHYLHEXYL)PHTHALATE (DEHP) (primary CASRN) (primary CASRN is 117-81-7), [8033-53-...

View all synonyms (124)

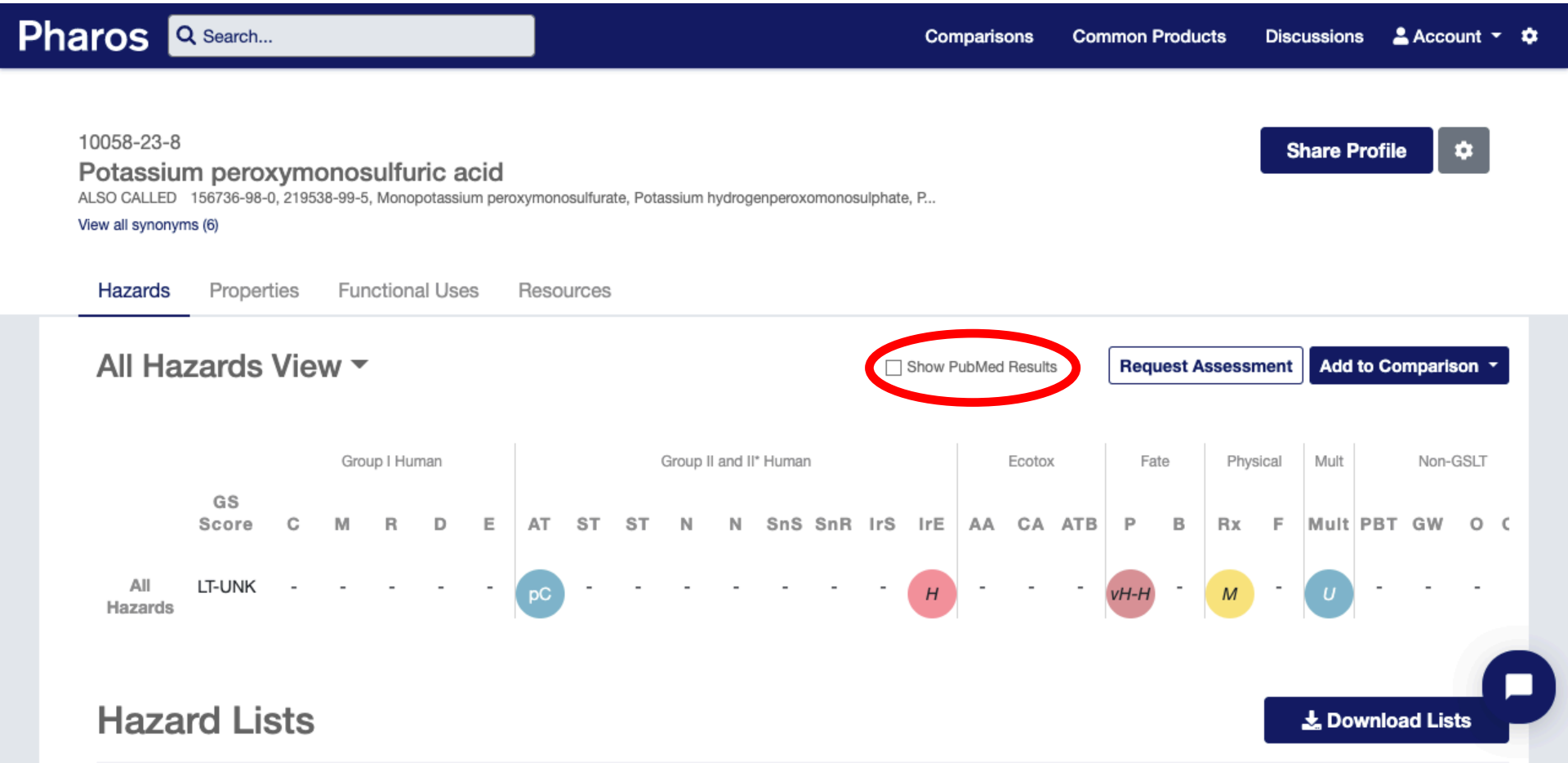
Share Profile

Hazards | Properties | Functional Uses | Process Chemistry | Resources

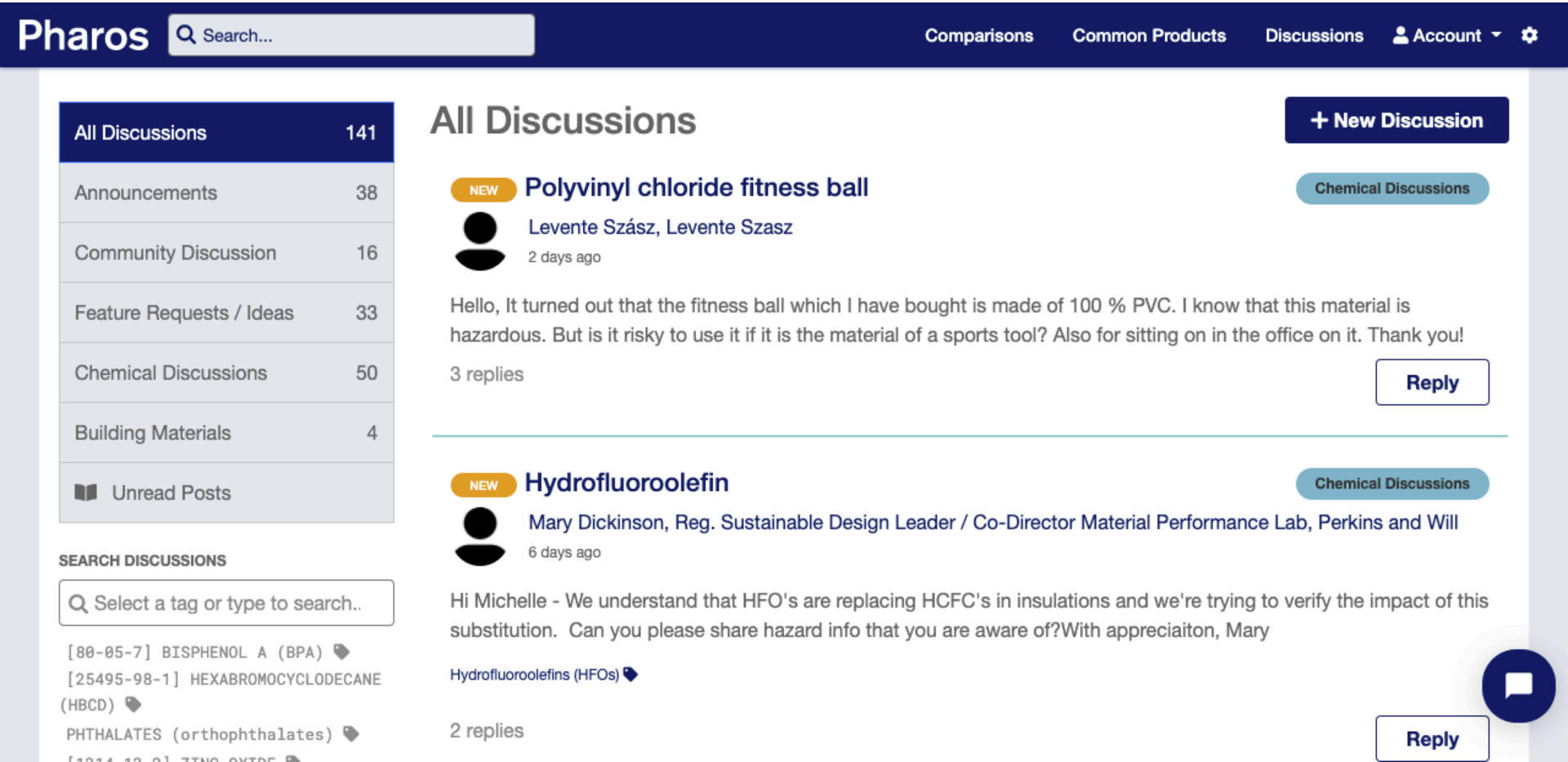
HBN Resources (12)

TYPE	TITLE
Report	Asthmagens in Building Materials: The Problem & Solutions
Report	Avoiding Contaminants in Tire-Derived Flooring
Report	Eliminating Toxics in Carpet: Lessons for the Future of Recycling
Report	Environmental Impacts of Polyvinyl Chloride Building Materials
Report	Full Disclosure Required: A Strategy to Prevent Asthma Through Building Product Selection

Deep Dive: PubMed Search for Hazard Data



Discussion Forums: Access a Community of Experts



November 19, 2020

Beyond Product Content

Common Product Profiles in Pharos

HBN HEALTHY BUILDING NETWORK
KNOW BETTER

Common Product Categories

- Countertops
- Doors, Cabinetry, & Millwork
- Flooring
- Insulation
- Paints/Coatings
- Exterior Building Membranes
- Sealants
- Floor/Roof Construction Components
- Foundations
- Drywall Accessories
- Others

Common Products

About Common Products

Common Products are profiles that list the substances that are most commonly present in a given product type (e.g., vinyl composition tile). We use these profiles to provide building product guidance on our sister website, HomeFree.

Filter by product name or MasterFormat classification

COMMON PRODUCT NAME	MASTERFORMAT
Acoustical Ceiling Panels (FGD Gypsum)	09 51 13 Acoustical Panel Ceilings
Acoustical Ceiling Panels (mineral fiber)	09 51 13 Acoustical Panel Ceilings
Acoustical Ceiling Panels (Natural Gypsum)	09 51 13 Acoustical Panel Ceilings
Acrylic Flooring Adhesive	09 60 00 Flooring
Acrylic Latex Sealant	07 92 13 Elastomeric Joint Sealants
Aluminum Primer	09 96 00 High-Performance Coatings 09 96 56 Epoxy Coatings
Anodized Aluminum Curtainwall Extrusion	08 40 00 Entrances, Storefronts, and Curtain Walls 08 44 13 Glazed Aluminum Curtain Walls
ASJ-Faced Fiberglass Board Insulation	07 21 13.16 Fibrous Board Insulation

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Acoustical Ceiling Panels (mineral fiber)	09 51 13 Acoustical Panel Ceilings
Acoustical Ceiling Panels (Natural Gypsum)	09 51 13 Acoustical Panel Ceilings
Acrylic Flooring Adhesive	09 60 00 Flooring
Acrylic Latex Sealant	07 92 13 Elastomeric Joint Sealants
Aluminum Primer	09 96 00 High-Performance Coatings 09 96 56 Epoxy Coatings
Anodized Aluminum Curtainwall Extrusion	08 40 00 Entrances, Storefronts, and Curtain Walls 08 44 13 Glazed Aluminum Curtain Walls
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Acrylic Latex Sealant	07 92 13 Elastomeric Joint Sealants
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Common Products

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Fiberglass board

COMMON PRODUCT NAME	MASTERFORMAT
ASJ-Faced Fiberglass Board Insulation	07 21 13.16 Fibrous Board Insulation 09 81 13 Acoustic Board Insulation 23 07 00 HVAC Insulation 23 07 13 Duct Insulation 23 07 16 HVAC Equipment Insulation
Fiberglass Duct Board Insulation	23 07 00 HVAC Insulation 23 07 13 Duct Insulation

ASJ-Faced Fiberglass Board Insulation

Common Product

MasterFormat 07 21 13.16 Fibrous Board Insulation; 09 81 13 Acoustic Board Insulation; 23 07 00 HVAC Insulation; 23 07 13 Duct Insulation; 23 07 16 HVAC Equipment Insulation

This information reflects our best understanding of product composition in 2019.

About Common Products

Fiberglass board insulation is made from inorganic glass fibers that are typically held together with a phenol-formaldehyde binder, and formed into rigid rectangular boards. Up to 53% of the product comes from recycled content. It is frequently...

More about ASJ-Faced Fiberglass Board Insulation

Common Contents | All Contents | Process Chemistry | Resources

Nested View

Add to Comparison

NAME	% WT PART	% WT WHOLE	FUNCTION	GS SCORE	SOURCES
Fiberglass Board Insulation	91.39%	91.39%	Insulation	LT-1	
All Service Jacket	7.61%	7.61%	Vapor Retarder	BM-1	
Polyethylene Terephthalate (PET) 25038-59-9	1.00%	1.00%	Adhesive	LT-UNK	

ASJ-Faced Fiberglass Board Insulation

Common Product

MasterFormat 07 21 13.16 Fibrous Board Insulation; 09 81 13 Acoustic Board Insulation; 23 07 00 HVAC Insulation; 23 07 13 Duct Insulation; 23 07 16 HVAC Equipment Insulation

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More about ASJ-Faced Fiberglass Board Insulation

Common Contents | All Contents | Process Chemistry | Resources

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NAME	% WT PART	% WT WHOLE	FUNCTION	GS SCORE	SOURCES
Fiberglass Board Insulation	91.39%	91.39%	Insulation	LT-1	
All Service Jacket	7.61%	7.61%	Vapor Retarder	BM-1	
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ASJ-Faced Fiberglass Board Insulation

Common Product

MasterFormat 07 21 13.16 Fibrous Board Insulation; 09 81 13 Acoustic Board Insulation; 23 07 00 HVAC Insulation; 23 07 13 Duct Insulation; 23 07 16 HVAC Equipment Insulation

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More about ASJ-Faced Fiberglass Board Insulation

Common Contents | All Contents | Process Chemistry | Resources

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Common Contents | All Contents | Process Chemistry | Resources

Nested View | Add to Comparison

NAME	% WT PART	% WT WHOLE	FUNCTION	GS SCORE	SOURCES	
Fiberglass Board Insulation	91.39%	91.39%	Insulation	LT-1		
Fiber glass, biosoluble and/or with alkaline oxide and alkali earth oxide content ≤18 % by weight 65997-17-3	84.37%	77.11%	Insulator	LT-UNK		
T Urea, polymer with formaldehyde and phenol 25104-55-6	14.78%	13.51%	Binder	LT-UNK		
RESIDUAL OILS, PETROLEUM, SOLVENT-REFINED 64742-01-4	0.85%	0.78%	Dedusting Agent	LT-1		
All Service Jacket	7.61%	7.61%	Vapor Retarder	BM-1		
Polyethylene Terephthalate (PET) 25038-59-9	1.00%	1.00%	Adhesive	LT-UNK		

64742-01-4

RESIDUAL OILS, PETROLEUM, SOLVENT-REFINED

ALSO CALLED Residual oils (petroleum), solvent-refined

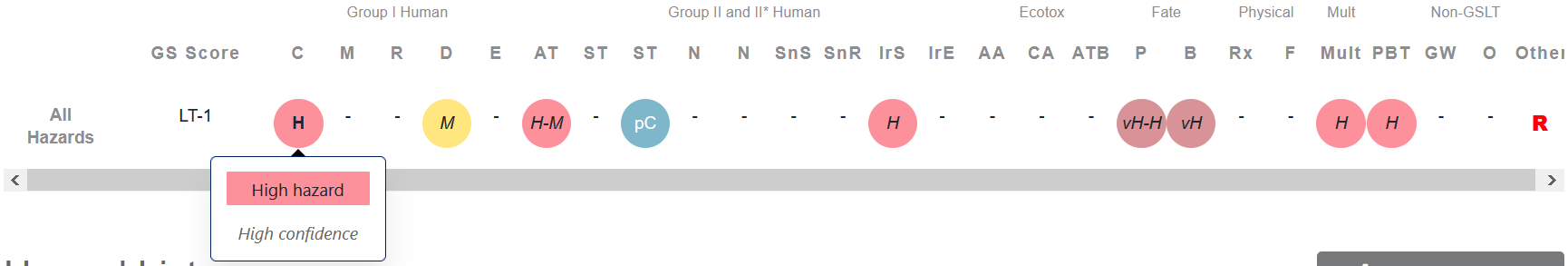
View all synonyms (1)

Share Profile

Hazards | Properties | Functional Uses | Process Chemistry | Resources

All Hazards View

Show PubMed Results | Request Assessment | Add to Comparison



Hazard Lists

Download Lists

ENDPOINT	HAZARD LEVEL	GS SCORE	LIST NAME	HAZARD DESCRIPTION	OTHER LISTS
Carcinogenicity	H	LT-1	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence	+4
Developmental Toxicity incl.	M	LT-	GHS - Australia	H361d - Suspected of damaging the unborn child	

All Service Jacket	7.61%	7.61%	Vapor Retarder	BM-1		
Kraft Paper - Bleached	37.67%	2.87%	Structure Component	LT-1		
Fiberglass 65997-17-3	18.16%	1.38%	Structure Component	LT-UNK		☐
Aluminum 7429-90-5	15.89%	1.21%	Vapor Barrier	BM-1		☐
Adhesive in All Service Jacket	15.08%	1.15%	Adhesive	BM-1		
Benzene, ethenyl-, polymer with 1,3-butadiene 9003-55-8	64.90%	0.74%	Adhesive	LT-UNK		☐
T Halogenated Flame Retardants (HFRs)	24.08%	0.28%	Flame Retardant	NoGS		☐
ANTIMONY TRIOXIDE 1309-64-4	11.02%	0.13%	Flame Retardant	BM-1		☐
Polypropylene 9003-07-0	13.20%	1.00%	Coating	LT-UNK		☐

All Service Jacket	7.61%	7.61%	Vapor Retarder	BM-1	
Kraft Paper - Bleached	37.67%	2.87%	Structure Component	LT-1	
Fiberglass 65997-17-3	18.16%	1.38%	Structure Component	LT-UNK	☐
Aluminum 7429-90-5	15.89%	1.21%	Vapor Barrier	BM-1	☐
Adhesive in All Service Jacket	15.08%	1.15%	Adhesive	BM-1	
Benzene, ethenyl-, polymer with 1,3-butadiene 9003-55-8	64.90%	0.74%	Adhesive	LT-UNK	☐
T Halogenated Flame Retardants (HFRs)	24.08%	0.28%	Flame Retardant	NoGS	☐
ANTIMONY TRIOXIDE 1309-64-4	11.02%	0.13%	Flame Retardant	BM-1	☐
Polypropylene 9003-07-0	13.20%	1.00%	Coating	LT-UNK	☐

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Kraft Paper - Bleached	37.67%	2.87%	Structure Component	LT-1	
Fiberglass 65997-17-3	18.16%	1.38%	Structure Component	LT-UNK	
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Benzene, ethenyl-, polymer with 1,3-butadiene 9003-55-8	64.00%	0.74%	Adhesive	LT-UNK	
T Halogenated Flame Retardants (HFRs)					
ANTIMONY TRIOXIDE 1309-64-4					
Polypropylene 9003-07-0	13.20%	1.00%	Coating	LT-UNK	

SOURCES

JM ASJ-4535 SDS JM ASJ-4535 TDS JM Patent 01

Knauf Earthwool HPD

NOTES

The specific halogenated flame retardant used was not disclosed. This content is therefore linked to the compound group for halogenated flame retardants.

All Service Jacket	7.61%	7.61%	Vapor Retarder	BM-1		
Kraft Paper - Bleached	37.67%	2.87%	Structure Component	LT-1		
Fiberglass 65997-17-3	18.16%	1.38%	Structure Component	LT-UNK		☐
Aluminum 7429-90-5	15.89%	1.21%	Vapor Barrier	BM-1		☐
	15.08%	1.15%	Adhesive	BM-1		
1,3-	64.90%	0.74%	Adhesive	LT-UNK		☐
T Halogenated Flame Retardants (HFRs)	24.08%	0.28%	Flame Retardant	NoGS		☐
ANTIMONY TRIOXIDE 1309-64-4	11.02%	0.13%	Flame Retardant	BM-1		☐
Polypropylene 9003-07-0	13.20%	1.00%	Coating	LT-UNK		☐

Transformation Target

HBN's Transformation Targets are chemical + product category combinations that are a high priority for avoidance. Halogenated flame retardants such as this one are a Transformation Target in the insulation category. To avoid these chemicals, avoid plastic foam insulation including board and spray-applied. If plastic foam insulation is used, look for those that are halogen-free. See our Hazard Spectrum and recommendations for insulation here.

Common Contents | All Contents | Process Chemistry | Resources

Nested View | Add to Comparison

NAME	% WT PART	% WT WHOLE	FUNCTION	GS SCORE	SOURCES	
Fiberglass Board Insulation	91.39%	91.39%	Insulation	LT-1		
All Service Jacket	7.61%	7.61%	Vapor Retarder	BM-1		
Kraft Paper - Bleached	37.67%	2.87%	Structure Component	LT-1		
Fiberglass 65997-17-3	18.16%	1.38%	Structure Component	LT-UNK		
Aluminum 7429-90-5	15.89%	1.21%	Vapor Barrier	BM-1		
Adhesive in All Service Jacket	15.08%	1.15%	Adhesive	BM-1		
Benzene, ethenyl-, polymer with 1,3-butadiene 9003-55-8	64.90%	0.74%	Adhesive	LT-UNK		
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Common Contents | All Contents | Process Chemistry | Resources

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Common Contents | All Contents | Process Chemistry | Resources

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NAME	% WT PART	% WT WHOLE	FUNCTION	GS SCORE	SOURCES	
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All Service Jacket	7.61%	7.61%	Vapor Retarder	BM-1		
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Fiberglass 65997-17-3	18.16%	1.38%	Structure Component	LT-UNK		
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Benzene, ethenyl-, polymer with 1,3-butadiene 9003-55-8	64.90%	0.74%	Adhesive	LT-UNK		
T Halogenated Flame Retardants (HFRs)	24.08%	0.28%	Flame	NoGS		

ASJ-Faced Fiberglass Board Insulation

Common Product

MasterFormat 07 21 13.16 Fibrous Board Insulation; 09 81 13 Acoustic Board Insulation; 23 07 00 HVAC Insulation; 23 07 13 Duct Insulation; 23 07 16 HVAC Equipment Insulation

This information reflects our best understanding of product composition in 2019.

About Common Products

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More about ASJ-Faced Fiberglass Board Insulation

Common Contents | All Contents | Process Chemistry | Resources

This is not necessarily representative of all possible content that may be found in this product type. Learn more

Add to Comparison

Binder *in Fiberglass Board Insulation*

		NAME	GS SCORE	SOURCES	
T	C	Urea, polymer with formaldehyde and phenol 25104-55-6	LT-UNK		
		Carbohydrate-based binder			

Dedusting Agent *in Fiberglass Board Insulation*

Vapor Barrier *in* *All Service Jacket*

	NAME	GS SCORE	SOURCES	
C	Aluminum 7429-90-5	BM-1		

Adhesive *in* *All Service Jacket* > *Adhesive in All Service Jacket*

	NAME	GS SCORE	SOURCES	
C	Benzene, ethenyl-, polymer with 1,3-butadiene 9003-55-8	LT-UNK		
	Natural rubber 9006-04-6	LT-UNK		
	Polyvinyl alcohol 9002-89-5	LT-UNK		

Flame Retardant *in* *All Service Jacket* > *Adhesive in All Service Jacket*

	NAME	GS SCORE	SOURCES	

Vapor Barrier *in* *All Service Jacket*

	NAME	GS SCORE	SOURCES	
C	Aluminum 7429-90-5	BM-1		

Adhesive *in* *All Service Jacket* > *Adhesive in All Service Jacket*

	NAME	GS SCORE	SOURCES	
C	Benzene, ethenyl-, polymer with 1,3-butadiene 9003-55-8	LT-UNK		
	Natural rubber 9006-04-6	LT-UNK		
	Polyvinyl alcohol 9002-89-5	LT-UNK		

Flame Retardant *in* *All Service Jacket* > *Adhesive in All Service Jacket*

	NAME	GS SCORE	SOURCES	

Vapor Barrier *in All Service Jacket*

	NAME	GS SCORE	SOURCES	
C	Aluminum 7429-90-5	BM-1		

Adhesive *in All Service Jacket* > *Adhesive in All Service Jacket*

	NAME	GS SCORE	SOURCES	
C	Benzene, ethenyl-, polymer with 1,3-butadiene 9003-55-8	LT-UNK		
	Natural rubber 9006-04-6	LT-UNK		
	Polyvinyl alcohol 9002-89-5	LT-UNK		

Flame Retardant *in All Service Jacket* > *Adhesive in All Service Jacket*

	NAME	GS SCORE	SOURCES	

Vapor Barrier *in* *All Service Jacket*

	NAME	GS SCORE	SOURCES	
C	Aluminum 7429-90-5	BM-1		

Adhesive *in* *All Service Jacket* > *Adhesive in All Service Jacket*

	NAME	GS SCORE	SOURCES	
C	Benzene, ethenyl-, polymer with 1,3-butadiene 9003-55-8	LT-UNK		
	Natural rubber 9006-04-6	LT-UNK		
	Polyvinyl alcohol 9002-89-5	LT-UNK		

Flame Retardant *in* *All Service Jacket* > *Adhesive in All Service Jacket*

	NAME	GS SCORE	SOURCES	

Vapor Barrier *in* *All Service Jacket*

	NAME	GS SCORE	SOURCES	
C	Aluminum 7429-90-5	BM-1		

Adhesive *in* *All Service Jacket* > *Adhesive in All Service Jacket*

	NAME	GS SCORE	SOURCES	
C	Benzene, ethenyl-, polymer with 1,3-butadiene 9003-55-8	LT-UNK		
	Natural rubber 9006-04-6	LT-UNK		
	Polyvinyl alcohol 9002-89-5	LT-UNK		

Flame Retardant *in* *All Service Jacket* > *Adhesive in All Service Jacket*

	NAME	GS SCORE	SOURCES	

ASJ-Faced Fiberglass Board Insulation

Common Product

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More about ASJ-Faced Fiberglass Board Insulation

Common Contents | All Contents | Process Chemistry | Resources

HBN Resources (1)

TYPE	TITLE
Tool	Insulation Hazard Spectrum

Sources

SOURCE	UPLOADED DOCUMENT	LINKED DOCUMENT
Abby		
Bioresources		

ASJ-Faced Fiberglass Board Insulation

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Bioresources		

Sources

SOURCE	UPLOADED DOCUMENT	LINKED DOCUMENT
Abby		
Bioresources		
Buy Insulation		
Cargill		
Cellophane		
CertainTeed CertaPro SDS		
CertainTeed CertaPro TDS		
CertainTeed Patent		
Deca BDE Federal Register		
Earthwool EPD		
Fortfiber		
Gelest		
GLT ASJ Facing Tape		
GLT ASJ Facing Tape MSDS		

ASJ-Faced Fiberglass Board Insulation

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About Common Products

Fiberglass board insulation is made from inorganic glass fibers that are typically held together with a phenol-formaldehyde binder, and formed into rigid rectangular boards. Up to 53% of the product comes from recycled content. It is frequently used to insulate HVAC ductwork, plenums, and industrial equipment. It can be installed either on the interior or exterior of ductwork, but products installed on ductwork interiors contain a protective coating, known as air stream surfacing and are beyond the scope of this CP. In addition to providing thermal insulation in areas where the carried air is cooler or warmer than the ambient air surrounding the ductwork, it also provides acoustical insulation, damping the noise of the HVAC system as well as cutting down on cross-talk. Fiberglass board insulation can be used in a variety of other applications such as interior acoustics and ceilings. At least two products currently available are marketed for use in exterior walls, and one is marketed for roof paneling systems. The insulation is manufactured unfaced or with a vapor barrier such as an all service jacket (ASJ) or foil-scrim kraft (FSK) facing. This Common Product focuses on fiberglass board insulation with an ASJ facing. At least one manufacturer offers a formaldehyde-free product.

Hide Full Description

Common Contents | All Contents | Process Chemistry | Resources

Nested View

Add to Comparison

NAME	% WT PART	% WT WHOLE	FUNCTION	GS SCORE	SOURCES
Fiberglass Board Insulation	91.39%	91.39%	Insulation	LT-1	
All Service Jacket	7.61%	7.61%	Vapor Retarder	BM-1	

ASJ-Faced Fiberglass Board Insulation

Common Product

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Hide Full Description

Common Contents | All Contents | Process Chemistry | Resources

Nested View

Add to Comparison

NAME	% WT PART	% WT WHOLE	FUNCTION	GS SCORE	SOURCES
Fiberglass Board Insulation	91.39%	91.39%	Insulation	LT-1	
All Service Jacket	7.61%	7.61%	Vapor Retarder	BM-1	

Low VOC Eggshell Acrylic Paint

Common Product

MasterFormat 09 91 23 Interior Painting

This information reflects our best understanding of product composition in 2019.

About Common Products

Acrylic paints can be used for both exterior and interior applications. “Acrylic” is a broad term that describes several polymers, and acrylic paint formulations vary from 100% acrylic, to a mixture of acrylic, vinyl acrylic, and styrene polymers. This Common Product (CP) describes a white, low-VOC acrylic paint, with a medium sheen (approximately eggshell), that could be used for coating interior surfaces. Low VOC paints included in the scope of this CP contain less than 50 g/L VOCs as defined by the California South Coast Air Quality Management District’s (SCAQMD) Rule 1168. This rule is specific to VOCs that contribute to smog formation, thus some chemicals carrying health hazards could be present but would not be counted toward the 50 g/L VOC limit. This CP does not include any colorants that would be added to the paint before its application. These can have a significant impact on the total VOC content of a tinted paint. Historically alkylphenol ethoxylates (APEs) have been used as surfactants in acrylic paints. This group of chemicals includes nonylphenol ethoxylates (NPEs) and octylphenol ethoxylates (OPEs). NPEs, OPEs, and their breakdown products have all been shown to have endocrine disrupting properties. This research found that some low VOC acrylic paints still contain APEs, but they were not found to be the most common surfactants used among the products surveyed. These findings suggest that the market may be shifting away from the use of APEs in low VOC eggshell acrylic paints.

A historical version of this Common Product is available here: https://pharosproject.net/common-products/2203415

Hide Full Description

Common Contents | All Contents | Process Chemistry | Resources

Nested View

Add to Comparison

NAME	% WT PART	% WT WHOLE	FUNCTION	GS SCORE	SOURCES
Water 7732-18-5	44.43%	44.43%	Solvent	BM-4	

Low VOC Eggshell Acrylic Paint

Common Product

MasterFormat 09 91 23 Interior Painting

This information reflects our best understanding of product composition in 2019.

About Common Products

Acrylic paints can be used for both exterior and interior applications. “Acrylic” is a broad term that describes several polymers, and acrylic paint formulations vary from 100% acrylic, to a mixture of acrylic, vinyl acrylic, and styrene polymers. This Common Product (CP) describes a white, low-VOC acrylic paint, with a medium sheen (approximately eggshell), that could be used for coating interior surfaces. Low VOC paints included in the scope of this CP contain less than 50 g/L VOCs as defined by the California South Coast Air Quality Management District’s (SCAQMD) Rule 1168. This rule is specific to VOCs that contribute to smog formation, thus some chemicals carrying health hazards could be present but would not be counted toward the 50 g/L VOC limit. This CP does not include any colorants that would be added to the paint before its application. These can have a significant impact on the total VOC content of a tinted paint. Historically alkylphenol ethoxylates (APEs) have been used as surfactants in acrylic paints. This group of chemicals includes nonylphenol ethoxylates (NPEs) and octylphenol ethoxylates (OPEs). NPEs, OPEs, and their breakdown products have all been shown to have endocrine disrupting properties. This research found that some low VOC acrylic paints still contain APEs, but they were not found to be the most common surfactants used among the products surveyed. These findings suggest that the market may be shifting away from the use of APEs in low VOC eggshell acrylic paints.

A historical version of this Common Product is available here: https://pharosproject.net/common-products/2203415

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Nested View

Add to Comparison

NAME	% WT PART	% WT WHOLE	FUNCTION	GS SCORE	SOURCES	
Water 7732-18-5	44.43%	44.43%	Solvent	BM-4		

Low VOC Eggshell Acrylic Paint

Common Product

MasterFormat 09 91 23 Interior Painting

This information reflects our best understanding of product composition in 2019.

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Common Products Can also Be Used to…

- Provide a Baseline for Comparison
- Identify Gaps in Disclosure
- …And More

Thank You