

CLASSIFICATION: 09 67 00 Fluid-Applied Flooring

created via: HPDC Online Builder

PRODUCT DESCRIPTION: A complete flooring system HPD consisting of Stonchem 441LV and Stonclad UR with a Stonseal UT7 topcoat.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

Characterized Yes No
Percent Weight and Role Provided?

Screened Yes No
Using Priority Hazard Lists with Results Disclosed?

Identified Yes No
Name and Identifier Provided?

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

Number of Greenscreen BM-4/BM3 contents..... 2
Contents highest concern GreenScreen
Benchmark or List translator Score..... BM-1
Nanomaterial..... No

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

INVENTORY AND SCREENING NOTES:

N/A

STONCHEM 441LV - STONCLAD UR - STONSEAL UT7 SYSTEM [QUARTZ
 LT-1 | CAN CASTOR OIL NoGS PORTLAND CEMENT LT-P1 | END | CAN
 METHYLENE BISPHENYL DIISOCYANATE (PURE MDI) LT-UNK | MAM | EYE
 | SKI | CAN | RES | MUL POLYMERIC MDI (PMDI) LT-UNK | RES | MUL | CAN
 PROPANOL, [(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-, POLYMER WITH
 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]BENZENE AND 1,1'-
 METHYLENEBIS[4-ISOCYANATOBENZENE] LT-UNK
 rLSZREMETHYLESTEREPOXID, REAKTIONSPRODUKT MIT
 TRIMETHYLOLPROPAN LT-UNK CALCIUM HYDROXIDE LT-P1
 DIPHENYLMETHANE-2,4'- DIISOCYANATE (2,4'-MDI) LT-UNK | MAM | EYE |
 SKI | CAN | RES | MUL WATER BM-4 C9-11-BRANCHED ALKYL BENZOATE
 NoGS TITANIUM DIOXIDE LT-1 | CAN | END 1,3-BUTADIENE,
 HOMOPOLYMER, HYDROXY-TERMINATED LT-UNK BARIUM SULFATE BM-
 2 | CAN DIAMINOPOLYPROPYLENE GLYCOL LT-P1 | MUL GARNET NoGS
 SILICA, AMORPHOUS LT-P1 | CAN ALUMINUM OXIDE LT-P1 | RES DIBUTYL
 SEBACATE LT-UNK TRIMETHOXYVINYLILANE BM-1 DIPROPYLENE
 GLYCOL DIBENZOATE LT-P1 | MUL CALCIUM OXIDE LT-P1 1,1',1",1"-
 (ETHANEDIYLNITRIL)OTETRAKIS(2-PROPANOL) LT-UNK ALUMINUM
 CALCIUM IRON OXIDE NoGS ALUMINUM OXIDE LT-P1 | RES ALUMINUM
 COMPOUNDS LT-UNK | RES BLAST FURNACE SLAG LT-UNK
 ALUMINOSILICATE LT-UNK CALCIUM OXIDE LT-P1 MAGNESIUM OXIDE LT-
 UNK | CAN FERRIC OXIDE BM-2 | CAN IRON OXIDES (MAK LIST OF 4) LT-
 UNK | CAN SILICA, AMORPHOUS LT-P1 | CAN AMORPHOUS SILICA
 SUBGROUPS LISTED BY MAK COMMISSION OF GERMANY LT-UNK
 SULFUR LT-UNK | SKI CALCIUM ALUMINATE LT-UNK CALCIUM
 CARBONATE BM-3 CALCIUM SULFATE DIHYDRATE LT-UNK DICALCIUM
 SILICATE LT-UNK FLY ASH LT-UNK ALUMINUM LT-P1 | RES | PHY | END
 ANTIMONY LT-1 | MAM | AQU | CAN ARSENIC LT-1 | MAM | AQU | DEV |
 CAN | PBT | END | MUL | GEN ARSENIC COMPOUNDS, INORGANIC LT-1 |
 MAM | AQU | DEV | CAN | PBT | GEN ARSENIC COMPOUNDS LT-P1 | MAM |
 AQU | DEV | PBT TOXIC HEAVY METALS NoGS LEAD LT-1 | MAM | AQU |
 DEV | REP | CAN | PBT | MUL | END | GEN LEAD COMPOUNDS, INORGANIC
 LT-1 | MAM | AQU | DEV | REP | CAN | PBT | GEN LEAD COMPOUNDS LT-1 |
 MAM | AQU | DEV | REP | CAN | PBT SODIUM CARBONATE LT-P1 | EYE
 SODIUM HYDROXIDE LT-P1 | SKI | PHY SODIUM NITRATE LT-P1 | END
 SODIUM SULFATE LT-UNK ANTIMONY COMPOUNDS, INORGANIC LT-1 |
 MAM | AQU | CAN ANTIMONY COMPOUNDS LT-P1 | MAM | AQU BARIUM

LT-P1 | END **BARIUM COMPOUNDS** LT-UNK **BENZO[G,H,I]PERYLENE** LT-1 | PBT | CAN **POLYCYCLIC AROMATIC HYDROCARBONS (PAH)** LT-1 | PBT | CAN **POLYCYCLIC AROMATIC COMPOUNDS - COMPOUND GROUP** NoGS **BORON** LT-UNK **BORON COMPOUNDS** NoGS **BROMINE** LT-P1 | MAM | SKI | AQU | MUL **CADMIUM** LT-1 | MAM | CAN | AQU | REP | DEV | PBT | GEN | PHY | MUL | END **CADMIUM COMPOUNDS, INORGANIC** LT-1 | CAN | PBT | AQU | GEN **CADMIUM COMPOUNDS** LT-1 | CAN | PBT | AQU **CARBON** LT-UNK **CESIUM** LT-UNK **CHROMIUM** LT-P1 | RES | END | SKI **CHROMIUM (III) COMPOUNDS** LT-UNK | SKI **COBALT** LT-1 | RES | SKI | CAN | MUL | GEN **BUTOXYPROPANOL** LT-UNK | EYE | SKI **1-PROPANOL-2-BUTOXY** NoGS **PROPYLENE GLYCOL & GLYCOL ETHERS (PGES)** NoGS **COBALT COMPOUNDS** LT-1 | RES | CAN | GEN **COBALT COMPOUNDS THAT RELEASE COBALT IONS IN VIVO** LT-1 | CAN **MAGNESIUM** LT-UNK | PHY **MANGANESE** LT-P1 | END | MUL | REP **MERCURY** LT-1 | MAM | AQU | DEV | PBT | REP | MUL | END | CAN | SKI **MERCURY COMPOUNDS, INORGANIC** LT-1 | MAM | AQU | DEV | PBT | CAN | SKI **MERCURY COMPOUNDS** LT-1 | DEV | PBT **MOLYBDENUM** LT-UNK **NICKEL** LT-1 | MAM | CAN | SKI | AQU | RES | MUL **NICKEL COMPOUNDS** LT-1 | CAN | RES **POLYCYCLIC AROMATIC COMPOUNDS** LT-1 | CAN | PBT | AQU | GEN | REP | MUL **PITCHES, COAL TAR** NoGS **POTASSIUM** LT-P1 | SKI | PHY **QUARTZ** LT-1 | CAN **CRYSTALLINE SILICAS - RESPIRABLE** LT-1 | CAN **SELENIUM** LT-P1 | MAM | AQU | PBT | MUL | CAN **SULFURIC ACID** LT-P1 | SKI | RES | CAN | MAM | PHY **SELENIUM COMPOUNDS** LT-P1 | MAM | AQU | PBT **SILICA, CHRISTOBALITE** LT-1 | CAN **SODIUM MONOXIDE** LT-UNK **STRONTIUM** LT-UNK **SULFUR TRIOXIDE** LT-P1 | MAM **THALLIUM** LT-P1 | MAM | GEN | REP **TITANIUM DIOXIDE** LT-1 | CAN | END **BIOCIDAL COATINGS / BIOCIDAL ADDITIVES (GADSL LIST)** NoGS **AZOCOLLOURANTS AND AZODYES** NoGS **BIOCIDES** NoGS **ANTIMICROBIALS** NoGS **TITANIUM DIOXIDE COMPOUNDS** LT-1 | CAN **VANADIUM** LT-1 | MUL | CAN | GEN **TRICALCIUM SILICATE** LT-UNK **STANNOUS OCTOATE** LT-P1 | MUL **2-ETHYLHEXANOIC ACID** LT-P1 | DEV | END | REP **TIN DICHLORIDE** LT-P1 | END | MUL **1,2-PROPANEDIOL DIBENZOATE** LT-UNK **DIPROPYLENE GLYCOL MONOBENZOATE** NoGS **PROPENYLOXY PROPYL BENZOATE** NoGS **PROPYLENE GLYCOL MONOBENZOATE** NoGS]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 15 Regulatory (g/l): 15
 Does the product contain exempt VOCs: No
 Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.1 (Section 01350/CHPS) - Classroom & Office scenario

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2017-12-06

PUBLISHED DATE: 2017-12-06

EXPIRY DATE: 2020-12-06

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

STONCHEM 441LV - STONCLAD UR - STONSEAL UT7 SYSTEM

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Partially

RESIDUALS AND IMPURITIES NOTES: Residuals are considered and included only when above the reported threshold.

OTHER PRODUCT NOTES: N/A

QUARTZ

ID: 14808-60-7

#: 57.7000 - 57.7000	GS: LT-1	RC: None	NANO: No	ROLE: Aggregate/Filler
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	US CDC - Occupational Carcinogens		Occupational Carcinogen	
CANCER	CA EPA - Prop 65		Carcinogen - specific to chemical form or exposure route	
CANCER	IARC		Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources	
CANCER	US NIH - Report on Carcinogens		Known to be Human Carcinogen (respirable size - occupational setting)	
CANCER	MAK		Carcinogen Group 1 - Substances that cause cancer in man	
CANCER	New Zealand - GHS		6.7A - Known or presumed human carcinogens	
CANCER	Australia - GHS		H350 - May cause cancer	

SUBSTANCE NOTES: N/A

CASTOR OIL

ID: 8001-79-4

#: 8.6900 - 8.6900	GS: NoGS	RC: None	NANO: No	ROLE: Reactive Resin
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: N/A

PORTLAND CEMENT

ID: 65997-15-1

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: N/A

METHYLENE BISPHENYL DIISOCYANATE (PURE MDI)

ID: 101-68-8

%: **5.0300 - 5.0300** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Reactive Isocyanate**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
RESPIRATORY	EU - R-phrases	R42 - May cause sensitization by inhalation
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48 - Danger of serious damage to health by prolonged exposure.
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: N/A

POLYMERIC MDI (PMDI)

ID: 9016-87-9

#: 4.2100 - 4.2100

GS: LT-UNK

RC: None

NANO: No

ROLE: Reactive Isocyanate

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: N/A

PROPANOL, [(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-, POLYMER WITH 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]BENZENE AND 1,1'-METHYLENEBIS[4-ISOCYANATOBENZENE]

ID: 75880-28-3

#: 3.1700 - 3.1700

GS: LT-UNK

RC: None

NANO: No

ROLE: Reactive Isocyanate

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	

SUBSTANCE NOTES: N/A

LSZUREMETHYLESTEREPOXID, REAKTIONSPRODUKT MIT TRIMETHYLOLPROPAN

ID: 189021-46-3

#: 2.9400 - 2.9400

GS: LT-UNK

RC: None

NANO: No

ROLE: Reactive Resin

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	

SUBSTANCE NOTES: N/A

CALCIUM HYDROXIDE

ID: 1305-62-0

#: 2.2500 - 2.2500

GS: LT-P1

RC: None

NANO: No

ROLE: Filler

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	

SUBSTANCE NOTES: N/A

DIPHENYLMETHANE-2,4'- DIISOCYANATE (2,4'-MDI)

ID: 5873-54-1

#: 1.3500 - 1.3500

GS: LT-UNK

RC: None

NANO: No

ROLE: Reactive Isocyanate

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
RESPIRATORY	EU - R-phrases	R42 - May cause sensitization by inhalation
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48 - Danger of serious damage to health by prolonged exposure.
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES: N/A

WATER

ID: 7732-18-5

#: 1.2400 - 1.2400

GS: BM-4

RC: None

NANO: No

ROLE: Water/Reactive Material

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	

SUBSTANCE NOTES: N/A

C9-11-BRANCHED ALKYL BENZOATE

ID: 131298-44-7

#: 1.1700 - 1.1700

GS: NoGS

RC: None

NANO: No

ROLE: Reactive Resin

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	

SUBSTANCE NOTES: N/A

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
%: 0.8900 - 0.8900	GS: LT-1	RC: None	NANO: No	ROLE: Pigment
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen		
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route		
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value		
SUBSTANCE NOTES: N/A				

1,3-BUTADIENE, HOMOPOLYMER, HYDROXY-TERMINATED

ID: 69102-90-5

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
%: 0.7000 - 0.7000	GS: LT-UNK	RC: None	NANO: No	ROLE: Reactive Resin
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: N/A				

BARIUM SULFATE

ID: 7727-43-7

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
%: 0.6500 - 0.6500	GS: BM-2	RC: None	NANO: No	ROLE: Pigment
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels		
SUBSTANCE NOTES: N/A				

DIAMINOPOLYPROPYLENE GLYCOL

ID: 9046-10-0

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
%: 0.4800 - 0.4800	GS: LT-P1	RC: None	NANO: No	ROLE: Reactive Resin
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
SUBSTANCE NOTES: N/A				

GARNET

ID: 1302-62-1

%: **0.4100 - 0.4100** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Filler**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: N/A

SILICA, AMORPHOUS

ID: 7631-86-9

%: **0.3800 - 0.3800** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Filler**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

Japan - GHS

Carcinogenicity - Category 1A

SUBSTANCE NOTES: N/A

ALUMINUM OXIDE

ID: 1344-28-1

%: **0.2800 - 0.2800** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Aggregate/Filler**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: N/A

DIBUTYL SEBACATE

ID: 109-43-3

%: **0.1400 - 0.1400** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Reactive Resin**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: N/A

TRIMETHOXYVINYL SILANE

ID: 2768-02-7

%: **0.1100 - 0.1100** GS: **BM-1** RC: **None** NANO: **No** ROLE: **Additive**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: N/A

DIPROPYLENE GLYCOL DIBENZOATE

ID: 27138-31-4

%: 0.0800 - 0.0800	GS: LT-P1	RC: None	NANO: No	ROLE: Plasticizer
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
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SUBSTANCE NOTES: N/A

CALCIUM OXIDE

ID: 1305-78-8

%: 0.0700 - 0.0700	GS: LT-P1	RC: None	NANO: No	ROLE: Filler
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: N/A

1,1',1'',1'''-(ETHANEDIYLNITRIL)OTETRAKIS(2-PROPANOL)

ID: 102-60-3

%: 0.0400 - 0.0400	GS: LT-UNK	RC: None	NANO: No	ROLE: Plasticizer
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: N/A

ALUMINUM CALCIUM IRON OXIDE

ID: 12068-35-8

%: Impurity/Residual	GS: NoGS	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

ALUMINUM OXIDE

ID: 1344-28-1

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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ALUMINUM COMPOUNDS

ID: **Not registered**

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only		
SUBSTANCE NOTES: Imported from Pharos process chemistry research				

BLAST FURNACE SLAG

ID: **65996-69-2**

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Imported from Pharos process chemistry research				

ALUMINOSILICATE

ID: **1327-36-2**

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Imported from Pharos process chemistry research				

CALCIUM OXIDE

ID: **1305-78-8**

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Imported from Pharos process chemistry research				

MAGNESIUM OXIDE

ID: **1309-48-4**

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk		

SUBSTANCE NOTES: Imported from Pharos process chemistry research

FERRIC OXIDEID: **1309-37-1**

#: Impurity/Residual	GS: BM-2	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
CANCER	MAK Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Imported from Pharos process chemistry research

IRON OXIDES (MAK LIST OF 4)ID: **Not registered**

#: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
CANCER	MAK Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SILICA, AMORPHOUSID: **7631-86-9**

#: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
CANCER	Japan - GHS Carcinogenicity - Category 1A

SUBSTANCE NOTES: Imported from Pharos process chemistry research

AMORPHOUS SILICA SUBGROUPS LISTED BY MAK COMMISSION OF GERMANYID: **Not registered**

#: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SULFUR

ID: 7704-34-9

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
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SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

CALCIUM ALUMINATE

ID: 12042-78-3

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

CALCIUM CARBONATE

ID: 471-34-1

%: Impurity/Residual	GS: BM-3	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

CALCIUM SULFATE DIHYDRATE

ID: 10101-41-4

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

DICALCIUM SILICATE

ID: 10034-77-2

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

FLY ASH

ID: 69012-84-6

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ALUMINUM

ID: 7429-90-5

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H228 - Flammable solid

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H250 - Catches fire spontaneously if exposed to air

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H261 - In contact with water releases flammable gases

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ANTIMONY

ID: 7440-36-0

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN

EU - R-phrases

R20 - Harmful by Inhalation (gas or vapor or dust/mist)

MAMMALIAN

EU - R-phrases

R22 - Harmful if Swallowed

ACUTE AQUATIC

EU - R-phrases

R51 - Toxic to Aquatic Organisms

CHRON AQUATIC

EU - GHS (H-Statements)

H411 - Toxic to aquatic life with long lasting effects

CANCER

MAK

Carcinogen Group 2 - Considered to be carcinogenic for man

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ARSENIC

ID: 7440-38-2

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases	R25 - Toxic if Swallowed
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group A - Human Carcinogen
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ARSENIC COMPOUNDS, INORGANIC

ID: **Not registered**

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases			R23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases			R25 - Toxic if Swallowed
ACUTE AQUATIC	EU - R-phrases			R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	G&L - Neurotoxic Chemicals			Developmental Neurotoxicant
CANCER	IARC			Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65			Carcinogen
CANCER	US CDC - Occupational Carcinogens			Occupational Carcinogen

PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
GENE MUTATION	MAK	Germ Cell Mutagen 3a

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ARSENIC COMPOUNDS

ID: **Not registered**

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases			R23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases			R25 - Toxic if Swallowed
ACUTE AQUATIC	EU - R-phrases			R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	G&L - Neurotoxic Chemicals			Developmental Neurotoxicant
PBT	OR DEQ - Priority Persistent Pollutants			Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)			H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)			H410 - Very toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Statements)			H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)			H331 - Toxic if inhaled

SUBSTANCE NOTES: Imported from Pharos process chemistry research

TOXIC HEAVY METALS

ID: **Not registered**

%: Impurity/Residual	GS: NoGS	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Imported from Pharos process chemistry research

LEAD

ID: **7439-92-1**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	EU - R-phrases	R61 - May cause harm to the unborn child
REPRODUCTIVE	EU - R-phrases	R62 - Possible risk of impaired fertility
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2A - Agent is probably Carcinogenic to humans
CANCER	IARC	Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	PBT
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Priority PBTs (PPT)	Priority PBT
PBT	US EPA - Toxics Release Inventory PBTs	PBT
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
DEVELOPMENTAL	EU - GHS (H-Statements)	H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A

SUBSTANCE NOTES: Imported from Pharos process chemistry research

LEAD COMPOUNDS, INORGANIC

ID: **Not registered**

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases			R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases			R22 - Harmful if Swallowed
ACUTE AQUATIC	EU - R-phrases			R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	EU - R-phrases			R61 - May cause harm to the unborn child
REPRODUCTIVE	EU - R-phrases			R62 - Possible risk of impaired fertility
DEVELOPMENTAL	G&L - Neurotoxic Chemicals			Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens			(1986) Group B2 - Probable human Carcinogen
CANCER	IARC			Group 2A - Agent is probably Carcinogenic to humans
CANCER	CA EPA - Prop 65			Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs			PBT
PBT	OR DEQ - Priority Persistent Pollutants			Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)			H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)			H410 - Very toxic to aquatic life with long lasting effects
DEVELOPMENTAL	EU - GHS (H-Statements)			H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE	EU - REACH Annex XVII CMRs			Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
CANCER	MAK			Carcinogen Group 2 - Considered to be carcinogenic for man
GENE MUTATION	MAK			Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs			Reproductive Toxicity - Category 1A

SUBSTANCE NOTES: Imported from Pharos process chemistry research

LEAD COMPOUNDS

ID: **Not registered**

#: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases			R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases			R22 - Harmful if Swallowed
ACUTE AQUATIC	EU - R-phrases			R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	EU - R-phrases			R61 - May cause harm to the unborn child
REPRODUCTIVE	EU - R-phrases			R62 - Possible risk of impaired fertility
DEVELOPMENTAL	G&L - Neurotoxic Chemicals			Developmental Neurotoxicant
CANCER	CA EPA - Prop 65			Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs			PBT
PBT	OR DEQ - Priority Persistent Pollutants			Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)			H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)			H410 - Very toxic to aquatic life with long lasting effects
DEVELOPMENTAL	EU - GHS (H-Statements)			H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE	EU - REACH Annex XVII CMRs			Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
REPRODUCTIVE	EU - Annex VI CMRs			Reproductive Toxicity - Category 1A

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SODIUM CARBONATE

ID: **497-19-8**

#: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
EYE IRRITATION	EU - R-phrases			R36 - Irritating to eyes
EYE IRRITATION	EU - GHS (H-Statements)			H319 - Causes serious eye irritation

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SODIUM HYDROXIDE

ID: **1310-73-2**

#: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
SKIN IRRITATION	EU - R-phrases			R35 - Causes severe burns

SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
PHYSICAL HAZARD (REACTIVE)	Korea - GHS	H290 - May be corrosive to metals

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SODIUM NITRATE

ID: 7631-99-4

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SODIUM SULFATE

ID: 7757-82-6

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ANTIMONY COMPOUNDS, INORGANIC

ID: Not registered

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)		
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed		
ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms		
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects		
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man		

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ANTIMONY COMPOUNDS

ID: Not registered

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			

MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects

SUBSTANCE NOTES: Imported from Pharos process chemistry research

BARIUM

ID: **7440-39-3**

#: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		

SUBSTANCE NOTES: Imported from Pharos process chemistry research

BARIUM COMPOUNDS

ID: **Not registered**

#: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Imported from Pharos process chemistry research

BENZO[G,H,I]PERYLENE

ID: **191-24-2**

#: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT		
PBT	WA DoE - PBT	PBT		
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen		
PBT	US EPA - Toxics Release Inventory PBTs	PBT		
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Substance of Possible Concern		
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action		
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1		

SUBSTANCE NOTES: Imported from Pharos process chemistry research

POLYCYCLIC AROMATIC HYDROCARBONS (PAH)ID: **Not registered**

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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PBT	WA DoE - PBT	PBT
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action

SUBSTANCE NOTES: Imported from Pharos process chemistry research

POLYCYCLIC AROMATIC COMPOUNDS - COMPOUND GROUPID: **Not registered**

%: Impurity/Residual	GS: NoGS	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

BORONID: **7440-42-8**

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

BORON COMPOUNDSID: **Not registered**

%: Impurity/Residual	GS: NoGS	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

BROMINEID: **7726-95-6**

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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MAMMALIAN	EU - R-phrases	R26 - Very Toxic by Inhalation
SKIN IRRITATION	EU - R-phrases	R35 - Causes severe burns
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances

SUBSTANCE NOTES: Imported from Pharos process chemistry research

CADMIUM

ID: 7440-43-9

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases			R23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases			R25 - Toxic if Swallowed
MAMMALIAN	EU - R-phrases			R26 - Very Toxic by Inhalation
CANCER	EU - R-phrases			R45 - May cause cancer
ORGAN TOXICANT	EU - R-phrases			R48 - Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases			R50 - Very Toxic to Aquatic Organisms
REPRODUCTIVE	EU - R-phrases			R62 - Possible risk of impaired fertility
DEVELOPMENTAL	EU - R-phrases			R63 - Possible risk of harm to the unborn child
CANCER	US EPA - IRIS Carcinogens			(1986) Group B1 - Probable human Carcinogen
CANCER	IARC			Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65			Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65			Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)			Priority PBT
PBT	WA DoE - PBT			PBT
GENE MUTATION	EU - R-phrases			R68 - May cause irreversible effects
REPRODUCTIVE	CA EPA - Prop 65			Reproductive Toxicity - Male
CANCER	US CDC - Occupational Carcinogens			Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens			Known to be a human Carcinogen
CANCER	EU - SVHC Authorisation List			Carcinogenic - Candidate list

PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H341 - Suspected of causing genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
REPRODUCTIVE	EU - GHS (H-Statements)	H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	New Zealand - GHS	6.6A - Known or presumed human mutagens
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
GENE MUTATION	MAK	Germ Cell Mutagen 3a
CANCER	Malaysia - GHS	H350 - May cause cancer
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Imported from Pharos process chemistry research

CADMIUM COMPOUNDS, INORGANIC

ID: **Not registered**

#: **Impurity/Residual** GS: **LT-1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER IARC Group 1 - Agent is Carcinogenic to humans

CANCER CA EPA - Prop 65 Carcinogen

PBT	WA DoE - PBT	PBT
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
GENE MUTATION	MAK	Germ Cell Mutagen 3a

SUBSTANCE NOTES: Imported from Pharos process chemistry research

CADMIUM COMPOUNDS

ID: **Not registered**

#: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	IARC			Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65			Carcinogen
PBT	WA DoE - PBT			PBT
CANCER	US CDC - Occupational Carcinogens			Occupational Carcinogen
PBT	OR DEQ - Priority Persistent Pollutants			Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)			H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)			H410 - Very toxic to aquatic life with long lasting effects

SUBSTANCE NOTES: Imported from Pharos process chemistry research

CARBON

ID: **7440-44-0**

#: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Imported from Pharos process chemistry research

CESIUM

ID: **7440-46-2**

#: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			

SUBSTANCE NOTES: Imported from Pharos process chemistry research

CHROMIUMID: **7440-47-3**

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Imported from Pharos process chemistry research

CHROMIUM (III) COMPOUNDSID: **Not registered**

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:	
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Imported from Pharos process chemistry research

COBALTID: **7440-48-4**

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	EU - R-phrases	R42 - May cause sensitization by inhalation
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CANCER	IARC	Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters

CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	MAK	Germ Cell Mutagen 3a

SUBSTANCE NOTES: Imported from Pharos process chemistry research

BUTOXYPROPANOL

ID: 5131-66-8

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes		
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin		
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation		
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation		

SUBSTANCE NOTES: Imported from Pharos process chemistry research

1-PROPANOL-2-BUTOXY

ID: 15821-83-7

%: Impurity/Residual	GS: NoGS	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Imported from Pharos process chemistry research

PROPYLENE GLYCOL & GLYCOL ETHERS (PGES)

ID: Not registered

%: Impurity/Residual	GS: NoGS	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Imported from Pharos process chemistry research

COBALT COMPOUNDS

ID: Not registered

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			

RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	MAK	Germ Cell Mutagen 3a

SUBSTANCE NOTES: Imported from Pharos process chemistry research

COBALT COMPOUNDS THAT RELEASE COBALT IONS IN VIVO

ID: **Not registered**

%: **Impurity/Residual** GS: **LT-1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER US NIH - Report on Carcinogens Reasonably Anticipated to be Human Carcinogen

SUBSTANCE NOTES: Imported from Pharos process chemistry research

MAGNESIUM

ID: **7439-95-4**

%: **Impurity/Residual** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS: AGENCY(IES) WITH WARNINGS:

PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements) H250 - Catches fire spontaneously if exposed to air

PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements) H260 - In contact with water releases flammable gases which may ignite spontaneously

SUBSTANCE NOTES: Imported from Pharos process chemistry research

MANGANESE

ID: **7439-96-5**

%: **Impurity/Residual** GS: **LT-P1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS: AGENCY(IES) WITH WARNINGS:

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

MULTIPLE German FEA - Substances Hazardous to Waters Class 2 - Hazard to Waters

REPRODUCTIVE Japan - GHS Toxic to reproduction - Category 1B

SUBSTANCE NOTES: Imported from Pharos process chemistry research

MERCURY

ID: **7439-97-6**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases	R26 - Very Toxic by Inhalation
MAMMALIAN	EU - R-phrases	R27 - Very Toxic in Contact with Skin
MAMMALIAN	EU - R-phrases	R28 - Very Toxic if Swallowed
ORGAN TOXICANT	EU - R-phrases	R48 - Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	EU - R-phrases	R61 - May cause harm to the unborn child
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	US EPA - Priority PBTs (PPT)	Priority PBT
PBT	US EPA - Toxics Release Inventory PBTs	PBT
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Statements)	H300 - Fatal if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H310 - Fatal in contact with skin
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled
DEVELOPMENTAL	EU - GHS (H-Statements)	H360D - May damage the unborn child
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A

REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
DEVELOPMENTAL	Malaysia - GHS	H360D - May damage the unborn child
DEVELOPMENTAL	Australia - GHS	H360D - May damage the unborn child
SUBSTANCE NOTES: Imported from Pharos process chemistry research		

MERCURY COMPOUNDS, INORGANIC

ID: **Not registered**

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:		AGENCY(IES) WITH WARNINGS:		
MAMMALIAN	EU - R-phrases			R26 - Very Toxic by Inhalation
MAMMALIAN	EU - R-phrases			R27 - Very Toxic in Contact with Skin
MAMMALIAN	EU - R-phrases			R28 - Very Toxic if Swallowed
ACUTE AQUATIC	EU - R-phrases			R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	CA EPA - Prop 65			Developmental toxicity
PBT	US EPA - Toxics Release Inventory PBTs			PBT
ACUTE AQUATIC	EU - GHS (H-Statements)			H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)			H410 - Very toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Statements)			H300 - Fatal if swallowed
MAMMALIAN	EU - GHS (H-Statements)			H310 - Fatal in contact with skin
MAMMALIAN	EU - GHS (H-Statements)			H330 - Fatal if inhaled
CANCER	MAK			Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
SKIN SENSITIZE	MAK			Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Imported from Pharos process chemistry research

MERCURY COMPOUNDS

ID: **Not registered**

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:		AGENCY(IES) WITH WARNINGS:		
DEVELOPMENTAL	CA EPA - Prop 65			Developmental toxicity
PBT	US EPA - Toxics Release Inventory PBTs			PBT

SUBSTANCE NOTES: Imported from Pharos process chemistry research

#: **Impurity/Residual** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

NICKEL

ID: 7440-02-0

#: **Impurity/Residual** GS: **LT-1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48 - Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R52 - Harmful to Aquatic Organisms
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	IARC	Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Imported from Pharos process chemistry research

NICKEL COMPOUNDS

ID: **Not registered**

#: **Impurity/Residual** GS: **LT-1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: Imported from Pharos process chemistry research

POLYCYCLIC AROMATIC COMPOUNDS

ID: 65996-93-2

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	EU - R-phrases	R45 - May cause cancer
PBT	EU - ESIS PBT	PBT
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs	PBT
CANCER	EU - SVHC Authorisation List	Carcinogenic - Prioritized for listing
CANCER	EU - SVHC Authorisation List	Carcinogenic - Banned unless Authorised
PBT	EU - SVHC Authorisation List	PBT - Prioritized for listing
PBT	EU - SVHC Authorisation List	PBT - Banned unless Authorised
PBT	EU - SVHC Authorisation List	vPvB - Prioritized for listing
PBT	EU - SVHC Authorisation List	vPvB - Banned unless Authorised
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life M = 1000
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 1 - Substances known to be Carcinogenic to man
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans

MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
PBT	ChemSec - SIN List	PBT / vPvB (Persistent, Bioaccumulative, & Toxic / very Persistent & very Bioaccumulative)
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	EU - Annex VI CMRs	Carcinogen Category 1A - Known human Carcinogen based on human evidence
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
CANCER	Japan - GHS	Carcinogenicity - Category 1A
GENE MUTATION	Japan - GHS	Germ cell mutagenicity - Category 1B
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
GENE MUTATION	Australia - GHS	H340 - May cause genetic defects
CANCER	Australia - GHS	H350 - May cause cancer
REPRODUCTIVE	Australia - GHS	H360Fd - May damage fertility. Suspected of damaging the unborn child

SUBSTANCE NOTES: Imported from Pharos process chemistry research

PITCHES, COAL TAR

ID: **Not registered**

#: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

POTASSIUM

ID: **7440-09-7**

#: **Impurity/Residual** GS: **LT-P1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
SKIN IRRITATION	EU - R-phrases R34 - Causes burns
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements) H260 - In contact with water releases flammable gases which may ignite spontaneously
SKIN IRRITATION	EU - GHS (H-Statements) H314 - Causes severe skin burns and eye damage

SUBSTANCE NOTES: Imported from Pharos process chemistry research

QUARTZ

ID: 14808-60-7

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
%: Impurity/Residual	GS: LT-1	RC: UNK
		NANO: No
		ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Imported from Pharos process chemistry research

CRYSTALLINE SILICAS - RESPIRABLEID: **Not registered**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
%: Impurity/Residual	GS: LT-1	RC: UNK
		NANO: No
		ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SELENIUM

ID: 7782-49-2

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
%: Impurity/Residual	GS: LT-P1	RC: UNK
		NANO: No
		ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases	R25 - Toxic if Swallowed
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life

CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SULFURIC ACID

ID: 7664-93-9

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
SKIN IRRITATION	EU - R-phrases			R35 - Causes severe burns
RESPIRATORY	AOEC - Asthmagens			Asthmagen (Rr) - irritant-induced
SKIN IRRITATION	EU - GHS (H-Statements)			H314 - Causes severe skin burns and eye damage
CANCER	MAK			Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances			Extremely Hazardous Substances
CANCER	New Zealand - GHS			6.7A - Known or presumed human carcinogens
PHYSICAL HAZARD (REACTIVE)	Korea - GHS			H290 - May be corrosive to metals

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SELENIUM COMPOUNDS

ID: Not registered

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases			R23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases			R25 - Toxic if Swallowed
ACUTE AQUATIC	EU - R-phrases			R50 - Very Toxic to Aquatic Organisms
PBT	OR DEQ - Priority Persistent Pollutants			Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Statements)			H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)			H410 - Very toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Statements)			H301 - Toxic if swallowed
MAMMALIAN	EU - GHS (H-Statements)			H331 - Toxic if inhaled

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SILICA, CHRISTOBALITE

ID: 14464-46-1

#: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	US CDC - Occupational Carcinogens			Occupational Carcinogen
CANCER	CA EPA - Prop 65			Carcinogen - specific to chemical form or exposure route
CANCER	IARC			Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens			Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK			Carcinogen Group 1 - Substances that cause cancer in man
CANCER	New Zealand - GHS			6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS			Carcinogenicity - Category 1A
CANCER	Australia - GHS			H350 - May cause cancer

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SODIUM MONOXIDE

ID: 12401-86-4

#: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Imported from Pharos process chemistry research

STRONTIUM

ID: 7440-24-6

#: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SULFUR TRIOXIDE

ID: 7446-11-9

#: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances

SUBSTANCE NOTES: Imported from Pharos process chemistry research

THALLIUM

ID: 7440-28-0

#: **Impurity/Residual** GS: **LT-P1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R26 - Very Toxic by Inhalation
MAMMALIAN	EU - R-phrases	R28 - Very Toxic if Swallowed
MAMMALIAN	EU - GHS (H-Statements)	H300 - Fatal if swallowed
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled
GENE MUTATION	Japan - GHS	Germ cell mutagenicity - Category 1B
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A

SUBSTANCE NOTES: Imported from Pharos process chemistry research

TITANIUM DIOXIDE

ID: 13463-67-7

#: **Impurity/Residual** GS: **LT-1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: Imported from Pharos process chemistry research

BIOCIDAL COATINGS / BIOCIDAL ADDITIVES (GADSL LIST)

ID: **Not registered**

#: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
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None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

AZOCOLOURANTS AND AZODYES

ID: **Not registered**

%: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

BIOCIDES

ID: **Not registered**

%: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ANTIMICROBIALS

ID: **Not registered**

%: **Impurity/Residual** GS: **NoGS** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Imported from Pharos process chemistry research

TITANIUM DIOXIDE COMPOUNDS

ID: **Not registered**

%: **Impurity/Residual** GS: **LT-1** RC: **UNK** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

CANCER

MAK

Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: Imported from Pharos process chemistry research

VANADIUM

ID: 7440-62-2

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters		
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man		
GENE MUTATION	MAK	Germ Cell Mutagen 2		
SUBSTANCE NOTES: Imported from Pharos process chemistry research				

TRICALCIUM SILICATE

ID: 12168-85-3

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Imported from Pharos process chemistry research				

STANNOUS OCTOATE

ID: 301-10-0

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
SUBSTANCE NOTES: Imported from Pharos process chemistry research				

2-ETHYLHEXANOIC ACID

ID: 149-57-5

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
DEVELOPMENTAL	EU - R-phrases	R63 - Possible risk of harm to the unborn child		
DEVELOPMENTAL	EU - GHS (H-Statements)	H361d - Suspected of damaging the unborn child		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B		
SUBSTANCE NOTES: Imported from Pharos process chemistry research				

TIN DICHLORIDE

ID: 7772-99-8

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
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MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

1,2-PROPANEDIOL DIBENZOATE

ID: 19224-26-1

%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

DIPROPYLENE GLYCOL MONOBENZOATE

ID: 32686-95-6

%: Impurity/Residual	GS: NoGS	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

PROPENYLOXY PROPYL BENZOATE

ID: 197178-94-2

%: Impurity/Residual	GS: NoGS	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Imported from Pharos process chemistry research

PROPYLENE GLYCOL MONOBENZOATE

ID: 37086-84-3

%: Impurity/Residual	GS: NoGS	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

CDPH Standard Method V1.1 (Section 01350/CHPS) - Classroom & Office scenario

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2017-09-

EXPIRY DATE:

CERTIFIER OR LAB: Berkeley

APPLICABLE FACILITIES: All

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Analytical

CERTIFICATE URL: N/A

CERTIFICATION AND COMPLIANCE NOTES: N/A

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

N

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Stonhard**

CONTACT NAME: **Mike Jewell**

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TITLE: **VP of Product Development**

Maple Shade NJ 08052, USA

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KEY

OSHA MSDS	Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS	Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity	GLO Global warming	PHY Physical Hazard (reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive toxicity
DEV Developmental toxicity	MUL Multiple hazards	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	OZO Ozone depletion	LAN Land Toxicity
GEN Gene mutation	PBT Persistent Bioaccumulative Toxic	NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms

Inventory Methods:

- Nested Method / Material Threshold** Substances listed within each material per threshold indicated per material
- Nested Method / Product Threshold** Substances listed within each material per threshold indicated per product
- Basic Method / Product Threshold** Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.