# Stonclad UR - Stonseal UT7 by Stonhard

CLASSIFICATION: 09 67 00 Fluid-Applied Flooring

# Health Product Declaration v2.1

created via: HPDC Online Builder

PRODUCT DESCRIPTION: A complete flooring system HPD consisting of Stonclad UR with a Stonseal UT7 finish coating.

# Section 1: Summary

# **Basic Method / Product Threshold**

# **CONTENT INVENTORY**

- Inventory Reporting Format
- C Nested Materials Method
- Basic Method
- Threshold Disclosed Per

Section 2 for further details.

- C Material
- Product

Threshold level C 100 ppm C 1,000 ppm C Per GHS SDS C Per OSHA MSDS C Other

<b>Residuals/Impurities</b>
C Considered
Partially
Considered
C Not Considered

Explanation(s) provided

• Yes • No

Are All Substances Above the Threshold Indicated:

Characterized Percent Weight and Role Provided?	• Yes • No
Screened Using Priority Hazard Lists with Results Disclosed?	• Yes • No
Identified Name and Identifier Provided?	C Yes O No

# **INVENTORY AND SCREENING NOTES:** N/A

# MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY

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

GREENSCREEN SCORE | HAZARD TYPE

STONCLAD UR - STONSEAL UT7 [ QUARTZ LT-1 | CAN PORTLAND CEMENT LT-P1 | END | CAN POLYMERIC MDI (PMDI) LT-UNK | RES | MUL | CAN METHYLENE BISPHENYL DIISOCYANATE (PURE MDI) LT-UNK | MAM | EYE | SKI | CAN | RES | MUL CASTOR OIL NoGS CALCIUM MAGNESIUM HYDROXIDE NoGS WATER BM-4 C9-11-BRANCHED ALKYL BENZOATE NoGS BARIUM SULFATE BM-2 | CAN GARNET NoGS TITANIUM DIOXIDE LT-1 | CAN | END DIBUTYL SEBACATE LT-UNK DIPROPYLENE GLYCOL DIBENZOATE LT-P1 | MUL 1,1',1"'-(ETHANEDIYLNITRILO)TETRAKIS(2-PROPANOL) LT-UNK SILICA, AMORPHOUS LT-P1 | CAN SILICA GEL LT-UNK ALUMINUM OXIDE LT-P1 | RES CARBON BLACK LT-1 | CAN 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 FERRIC OXIDE BM-2 | CAN IRON OXIDES 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 LT-P1 | MAM | AQU | DEV | PBT TOXIC HEAVY METALS NoGS ARSENIC COMPOUNDS, INORGANIC LT-1 | MAM | AQU | DEV | CAN | PBT | GEN LEAD LT-1 | MAM | AQU | DEV | REP | CAN | PBT | MUL | END | GEN LEAD COMPOUNDS LT-1 | MAM | AQU | DEV | REP | CAN | PBT LEAD COMPOUNDS, INORGANIC LT-1 | MAM | AQU | DEV | REP | CAN | PBT | GEN SODIUM CARBONATE LT-P1 | EYE SODIUM HYDROXIDE LT-P1 | SKI | PHY SODIUM NITRATE LT-P1 | END SODIUM SULFATE LT-UNK ANTIMONY COMPOUNDS LT-P1 | MAM | AQU ANTIMONY COMPOUNDS, INORGANIC LT-1 | MAM | AQU | CAN 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 LT-UNK BROMINE LT-P1 | MAM | SKI | AQU | MUL CADMIUM LT-1 | MAM | CAN | AQU | REP | DEV | PBT | GEN | PHY | MUL | END CADMIUM COMPOUNDS LT-1 | CAN | PBT | AQU CADMIUM COMPOUNDS, INORGANIC LT-1 | CAN | PBT | AQU | GEN CARBON LT-UNK CESIUM LT-UNK CHROMIUM LT-P1 | RES | END 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 MAGNESIUM LT-UNK | PHY MANGANESE LT-P1 | END | MUL | REP MERCURY LT-1 | MAM | AQU | DEV | PBT | REP | MUL | END | CAN | SKI MERCURY COMPOUNDS LT-1 | DEV | PBT MERCURY COMPOUNDS, INORGANIC LT-1 | MAM | AQU | DEV | PBT | CAN | SKI 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 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 POLYCYCLIC AROMATIC HYDROCARBONS LT-1 | PBT | CAN POLYCYCLIC AROMATIC HYDROCARBONS (PAH) LT-1 | PBT | CAN POLYCYCLIC AROMATIC COMPOUNDS - COMPOUND GROUP NoGS ]

#### VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 7 Regulatory (g/l): 7 Does the product contain exempt VOCs: No Are ultra-low VOC tints available: Yes **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?

O Yes

PREPARER: **Self-Prepared** VERIFIER: VERIFICATION #:

SCREENING DATE: 2017-09-21 PUBLISHED DATE: 2017-09-21 EXPIRY DATE: 2020-09-21 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

## **STONCLAD UR - STONSEAL UT7**

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:

QUARTZ				ID	: <b>14808-60-7</b>
%: 70.7100 - 70.7100	GS: <b>LT-1</b>	RC: None	NANO: <b>NO</b>	ROLE: Filler/Aggregate	
HAZARDS:	AGENCY(IES) WITH	WARNINGS:			
CANCER	US CDC - Occ	upational Carcinogens	Occupati	onal Carcinogen	
CANCER	CA EPA - Prop	65	Carcinog	en - specific to chemical form or exposure ro	oute
CANCER	IARC	IARC		Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources	
CANCER	US NIH - Repo	US NIH - Report on Carcinogens		be Human Carcinogen (respirable size - oc	cupational
CANCER	МАК	МАК		Carcinogen Group 1 - Substances that cause cancer	
CANCER	New Zealand -	New Zealand - GHS		6.7A - Known or presumed human carcinogens	
CANCER	Australia - GHS	3	H350 - M	ay cause cancer	

SUBSTANCE NOTES:

#### **PORTLAND CEMENT**

%: 8.9100 - 8.9100	GS: <b>LT-P1</b>	RC: None	NANO: <b>NO</b>	ROLE: Filler/Aggregate
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
ENDOCRINE	TEDX - Potential	Endocrine Disruptors	Potential Endocrine Disruptor	
CANCER	МАК		0	en Group 3B - Evidence of carcinogenic effects but not for classification

SUBSTANCE NOTES:

ID: 65997-15-1

# POLYMERIC MDI (PMDI)

ID: 101-68-8

%: 5.1600 - 5.1600	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Reactive Isocyanates	
HAZARDS:	AGENCY(IES) WITH WARN	IINGS:			
RESPIRATORY	AOEC - Asthmagen	AOEC - Asthmagens		gen (G) - generally accepted	
RESTRICTED LIST	US EPA - PPT Cher	mical Action Plans	EPA Chemical of Concern - Action Plan published		
RESPIRATORY	US EPA - PPT Cher	mical Action Plans	Inhalation sensitizer causing asthma and lung damage		
CANCER	МАК		Carcinogen Group 4 - Non-genotoxic carcinogen with low under MAK/BAT levels		
RESPIRATORY	МАК		Sensitiz sensitiza	ing Substance Sah - Danger of airway & skin ation	

SUBSTANCE NOTES:

#### METHYLENE BISPHENYL DIISOCYANATE (PURE MDI)

%: 3.4400 - 3.4400	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Reactive Isocyanates		
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 Evi	dence 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	EU - R-phrases		R48: Danger of serious damage to health by prolonged exposure.		
RESPIRATORY	AOEC - Asthmagens	AOEC - Asthmagens		generally accepted		
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	3	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)	EU - GHS (H-Statements)		e allergy or asthma symptoms or breathing ed		
CANCER	EU - GHS (H-Statements)	EU - GHS (H-Statements)		d of causing cancer		
RESPIRATORY	US EPA - PPT Chemical Action Plans	3	Inhalation sensitizer causing asthma and lung damage			
CANCER	МАК		Carcinogen Grou under MAK/BAT	p 4 - Non-genotoxic carcinogen with low risk levels		

RESPIRATORY	МАК		Sensitizing S sensitization	Substance Sah - Danger of airway &	skin
SUBSTANCE NOTES:					
CASTOR OIL					ID: <b>8001-79-4</b>
%: 2.9000 - 2.9000	GS: NoGS	RC: None	NANO: <b>NO</b>	ROLE: Reactive Resin	
HAZARDS:	AGENCY(IES) WITH WA	RNINGS:			
None Found	No warnings found	d on HPD Priority lists			

SUBSTANCE NOTES:

CALCIUM MAGNESIUM HYDROXIDE						
%: 2.7600 - 2.7600	GS: NoGS	RC: None	NANO: <b>NO</b>	ROLE: Filler/Aggregate		
HAZARDS:	AGENCY(IES) WITH WARN	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found o	No warnings found on HPD Priority lists				

SUBSTANCE NOTES:

WATER					
%: 1.5200 - 1.5200	GS: <b>BM-4</b>	RC: None	NANO: <b>NO</b>	ROLE: Water	
HAZARDS:	AGENCY(IES) WITH WARM	NINGS:			
None Found	No warnings found	on HPD Priority lists			
SUBSTANCE NOTES:					

SUBSTANCE NOTES:

C9-11-BRANCHED ALKYL BENZOATE					
%: <b>1.4300 - 1.4300</b>	GS: NoGS	RC: None	NANO: <b>NO</b>	ROLE: Plasticizer	
HAZARDS:	AGENCY(IES) WITH WARNIN	IGS:			
None Found	No warnings found or	HPD Priority lists			
SUBSTANCE NOTES:					
BARIUM SULFATE					ID: <b>7727-43-7</b>
%: 0.7900 - 0.7900	GS: <b>BM-2</b>	RC: None	NANO: <b>No</b>	ROLE: Pigment	

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	МАК	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
SUBSTANCE NOTES:		

#### GARNET

 %: 0.5100 - 0.5100
 GS: NoGS
 RC: None
 NANO: No
 ROLE: Filler

 HAZARDS:
 AGENCY(IES) WITH WARNINGS:
 Image: Comparison of the state of the sta

SUBSTANCE NOTES:

# TITANIUM DIOXIDE

ID: 13463-67-7

ID: 1302-62-1

GS: <b>LT-1</b>	RC: None	NANO: <b>NO</b>	ROLE: Pigment	
AGENCY(IES) WITH WARNINGS:				
US CDC - Occupational	Carcinogens	Occupational Carcinogen		
CA EPA - Prop 65		Carcinogen - specific to chemical form or exposure route		
IARC		Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources		
TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor		
МАК		Carcinogen Group 3A - Ex sufficient to establish MAK	vidence of carcinogenic effects but not (/BAT value	
	US CDC - Occupational CA EPA - Prop 65 IARC TEDX - Potential Endocr	IARC TEDX - Potential Endocrine Disruptors	US CDC - Occupational Carcinogens Occupational Carcinogen CA EPA - Prop 65 Carcinogen - specific to ch IARC Group 2B - Possibly carcinoccupational sources TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptors MAK Carcinogen Group 3A - Ex	

SUBSTANCE NOTES:

%: <b>0.1700 - 0.1700</b>	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Plasticizer	
HAZARDS:	AGENCY(IES) WITH WARNIN	IGS:			
None Found	No warnings found or	ו HPD Priority lists			
SUBSTANCE NOTES:					
					ID: <b>27138-</b>
DIPROPYLENE GLYCOL I	GS: LT-P1	RC: None	NANO: <b>NO</b>	ROLE: Plasticizer	10. 11.00

SUBSTANCE NOTES:

1,1',1"',1"'-(ETHANEDIYLNITRILO)TETRAKIS(2-PROPANOL)					
%: 0.0500 - 0.0500	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Reactive Resin	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority	lists			
SUBSTANCE NOTES:					

SILICA, AMORPHOUS				ID: <b>7631-86-9</b>
%: 0.0500 - 0.0500	GS: <b>LT-P1</b>	RC: None	NANO: <b>NO</b>	ROLE: Filler
HAZARDS:	AGENCY(IES) WITH WARNI	NGS:		
CANCER	Japan - GHS		Carcinogenicity - Catego	ry 1A

SUBSTANCE NOTES:

%: 0.0400 - 0.0400	GS: LT-UNK	RC: None	NANO: <b>NO</b>	ROLE: Filler
HAZARDS:	AGENCY(IES) WITH WARNIN	NGS:		
None Found	No warnings found o	n HPD Priority lists		
SUBSTANCE NOTES:				
ALUMINUM OXIDE				ID: <b>1344-2</b>
%: 0.0300 - 0.0300	GS: <b>LT-P1</b>	RC: None	NANO: <b>NO</b>	ROLE: Pigment
	AGENCY(IES) WITH WARNIN	NGS:		
HAZARDS:	AGENCT(IES) WITH WARNI			
HAZARDS: RESPIRATORY	AOEC - Asthmagens		Asthmagen (ARs) - sei	nsitizer-induced - inhalable forms only
			Asthmagen (ARs) - sei	nsitizer-induced - inhalable forms only

%: <b>0.0200 - 0.0200</b>	GS: <b>LT-1</b>	RC: None	NANO: <b>No</b>	ROLE: Pigment
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
CANCER	US CDC - Occupational Carcinogens		Occupational Carci	inogen
CANCER	CA EPA - Prop 6	5	Carcinogen - speci	fic to chemical form or exposure route
CANCER	IARC	IARC		y carcinogenic to humans - inhaled from es
CANCER	МАК	МАК		3B - Evidence of carcinogenic effects but not fication
SUBSTANCE NOTES:				

#### ALUMINUM CALCIUM IRON OXIDE

%: Impurity/Residual	gs: NoGS	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH WAR	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found	No warnings found on HPD Priority lists				
SUBSTANCE NOTES: Imported fi	rom Pharos process chemi	istry research				

 ALUMINUM OXIDE
 ID: 1344-28-1

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

 HAZARDS:
 AGENCY(IES) WITH WARNINGS:
 Impurity/Residual
 AGENCY(IES) WITH WARNINGS:

 RESPIRATORY
 AOEC - Asthmagens
 Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ALUMINUM COMPOUNDS				ID: 🚺	Not registere
%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: <b>No</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARN	VINGS:			
RESPIRATORY	AOEC - Asthmagen	IS	Asthmagen	n (ARs) - sensitizer-induced - inhalable fo	orms only
SUBSTANCE NOTES: Imported fro	om Pharos process chemi	stry research			
BLAST FURNACE SLAG					ID: <b>65996-69-</b>
%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual	

ID: 12068-35-8

HAZARDS:	AGENCY(IES) WITH WARM	VINGS:			
None Found	No warnings found	on HPD Priority lists			
SUBSTANCE NOTES: Imported fr	om Pharos process chemi	stry research			
ALUMINOSILICATE					ID: <b>1327-36-2</b>
%: Impurity/Residual	GS: LT-UNK	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARM	VINGS:			
None Found	No warnings found	on HPD Priority lists			
SUBSTANCE NOTES: Imported fr	om Pharos process chemi	stry research			
CALCIUM OXIDE					ID: <b>1305-78-8</b>
%: Impurity/Residual	GS: <b>LT-P1</b>	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARN	NINGS:			

None Found	No warnings found on HPD Priority lists	

MAGNESIUM OXIDE					ID: <b>1309-48-4</b>
%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARNI	INGS:			
None Found	No warnings found o	on HPD Priority lists			

FERRIC OXIDE				ID: <b>1309-37-1</b>
%: Impurity/Residual	GS: <b>BM-2</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH W	/ARNINGS:		
CANCER	МАК			ogen Group 3B - Evidence of carcinogenic effects but not nt for classification
SUBSTANCE NOTES: Imported from Pt	naros process che	mistry research		
IRON OXIDES				ID: Not registered

.: Impurity/Residual	gs: LT-UNK	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:			
CANCER	МАК			en Group 3B - Evidence of carcinoge for classification	nic effects but not
SUBSTANCE NOTES: Imported fr	rom Pharos process chem	istry research			
GILICA, AMORPHOUS					ID: <b>7631-86</b>
: Impurity/Residual	GS: <b>LT-P1</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:			
CANCER	Japan - GHS		Carcinoge	enicity - Category 1A	
SUBSTANCE NOTES: Imported fr	rom Pharos process chem	istry research			
MORPHOUS SILICA SUBG	ROUPS LISTED BY MAK	COMMISSION OF			ID: Not register
. Impurity/Residual	gs: <b>LT-UNK</b>		RC: UNK	NANO: NO ROLE: Impurity/	Residual
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:			
None Found	No warnings found	on HPD Priority lists			
SUBSTANCE NOTES: Imported fr	rom Pharos process chem	istry research			
SULFUR					ID: <b>7704-3</b> 4
: Impurity/Residual	GS: LT-UNK	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:			
SKIN IRRITATION	EU - R-phrases		R38 - Irrita	ating to skin	
SKIN IRRITATION	EU - GHS (H-State	ements)	H315 - Ca	auses skin irritation	
SUBSTANCE NOTES: Imported fr	rom Pharos process chem	istry research			
CALCIUM ALUMINATE					ID: <b>12042-78</b>
ALCIUM ALUMINATE	GS: LT-UNK	rc: <b>UNK</b>	NANO: <b>No</b>	ROLE: Impurity/Residual	ID: <b>12042-78</b>

No warnings found on HPD Priority lists

None Found

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#### CALCIUM CARBONATE

%: Impurity/Residual	GS: <b>BM-3</b>	rc: <b>UNK</b>	NANO: <b>NO</b>	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 SULFATE DIHYDRATE

HAZARDS:     AGENCY(IES) WITH WARNINGS:       None Found     No warnings found on HPD Priority lists	%: Impurity/Residual	gs: <b>LT-UNK</b>	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
None Found No warnings found on HPD Priority lists	HAZARDS:	AGENCY(IES) WITH WARNINGS:			
	None Found	No warnings found on HF	PD Priority lists		

SUBSTANCE NOTES: Imported from Pharos process chemistry research

DICALCIUM SILICATE					ID: 10034-77-2		
%: Impurity/Residual	GS: LT-UNK	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual			
HAZARDS:	AGENCY(IES) WITH WARN	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings found o	on HPD Priority lists					

SUBSTANCE NOTES: Imported from Pharos process chemistry research

FLY ASH					ID: 69012-84-6
%: Impurity/Residual	gs: <b>LT-UNK</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARN	JINGS:			
None Found	No warnings found o	on HPD Priority lists			

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ALUMINUM				ID: <b>7429-90-5</b>
%: Impurity/Residual	GS: <b>LT-P1</b>	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
RESPIRATORY	AOEC - Asthmag	gens	Asthmag	gen (ARs) - sensitizer-induced - inhalable forms only

ID: **471-34-1** 

ID: 10101-41-4

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

# ANTIMONY

%: Impurity/Residual	GS: <b>LT-1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH	WARNINGS:		
MAMMALIAN	EU - R-phrases		R20 - H	łarmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases		R22 - H	larmful if Swallowed
ACUTE AQUATIC	EU - R-phrases		R51 - T	oxic to Aquatic Organisms
CHRON AQUATIC	EU - GHS (H-S	atements)	H411 -	Toxic to aquatic life with long lasting effects
CANCER	MAK		Carcino	ogen Group 2 - Considered to be carcinogenic for man

SUBSTANCE NOTES: Imported from Pharos process chemistry research

### ARSENIC

%: Impurity/Residual	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
MAMMALIAN	EU - R-phrases		R23 - <sup>-</sup>	Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases		R25 - 1	Toxic if Swallowed
ACUTE AQUATIC	EU - R-phrases		R50 - 1	Very Toxic to Aquatic Organisms
DEVELOPMENTAL	G&L - Neurotoxio	c Chemicals	Develo	opmental Neurotoxicant
CANCER	US EPA - IRIS C	arcinogens	(1986)	Group A - Human Carcinogen
CANCER	IARC		Group	1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 6	5	Carcin	logen
CANCER	US CDC - Occup	pational Carcinogens	Occup	bational Carcinogen
PBT	OR DEQ - Priorit	y Persistent Pollutants	Priority	y Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Sta	atements)	H400 -	- Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Sta	atements)	H410 -	- Very toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Sta	atements)	H301 -	- Toxic if swallowed
	EU - GHS (H-Sta	atements)	H331 -	- Toxic if inhaled

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ID: 7440-38-2

ID: 7440-36-0

ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	МАК	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	МАК	Germ Cell Mutagen 3a
CANCER	Australia - GHS	H350 - May cause cancer

#### **ARSENIC COMPOUNDS**

GS: **LT-P1** %: Impurity/Residual 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 EU - R-phrases ACUTE AQUATIC 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**

%: Impurity/Residual	gs: <b>NoGS</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual			
HAZARDS:	AGENCY(IES) WITH WA	AGENCY(IES) WITH WARNINGS:					
None Found	No warnings foun	d on HPD Priority lists					

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ID: Not registered

ID: Not registered

#### **ARSENIC COMPOUNDS, INORGANIC**

ID: Not registered

ID: 7439-92-1

%: Impurity/Residual	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
MAMMALIAN	EU - R-phrases		R23 - T	oxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases		R25 - T	oxic if Swallowed
ACUTE AQUATIC	EU - R-phrases		R50 - V	Yery Toxic to Aquatic Organisms
DEVELOPMENTAL	G&L - Neurotoxi	c Chemicals	Develo	pmental Neurotoxicant
CANCER	IARC		Group	1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 6	65	Carcino	ogen
CANCER	US CDC - Occu	pational Carcinogens	Occupa	ational Carcinogen
PBT	OR DEQ - Priori	ty Persistent Pollutants	Priority	Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-Sta	atements)	H400 -	Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Sta	atements)	H410 -	Very toxic to aquatic life with long lasting effects
MAMMALIAN	EU - GHS (H-Sta	atements)	H301 -	Toxic if swallowed
MAMMALIAN	EU - GHS (H-Sta	atements)	H331 -	Toxic if inhaled
CANCER	MAK		Carcino	ogen Group 1 - Substances that cause cancer in man
GENE MUTATION	MAK		Germ C	Cell Mutagen 3a

SUBSTANCE NOTES: Imported from Pharos process chemistry research

# LEAD

%: Impurity/Residual	GS: <b>LT-1</b>	rc: <b>UNK</b>	NANO: <b>No</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH	WARNINGS:			
MAMMALIAN	EU - R-phrases	3	R20 - F	Harmful by Inhalation (gas or vapor or dust/mist)	
MAMMALIAN	EU - R-phrases	3	R22 - F	Harmful if Swallowed	
ACUTE AQUATIC	EU - R-phrases	3	R50 - V	Very Toxic to Aquatic Organisms	
DEVELOPMENTAL	EU - R-phrases	3	R61 - N	May cause harm to the unborn child	
REPRODUCTIVE	EU - R-phrases	3	R62 - F	Possible risk of impaired fertility	
DEVELOPMENTAL	G&L - Neurotox	kic Chemicals	Develo	pmental 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	Carcino	ogen	
DEVELOPMENTAL	CA EPA - Prop	65	Develo	pmental toxicity	

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РВТ	US EPA - Priority PBTs (NWMP)	Priority PBT	
РВТ	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	
РВТ	US EPA - Toxics Release Inventory PBTs	РВТ	
РВТ	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action	
РВТ	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 damagin 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	МАК	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	МАК	Germ Cell Mutagen 3a	
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A	

LEAD COMPOUNDS				ID: Not registered
%: Impurity/Residual	GS: <b>LT-1</b>	RC: UNK	NANO: <b>No</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WA	RNINGS:		
MAMMALIAN	EU - R-phrases		R20 - H	armful by Inhalation (gas or vapor or dust/mist)

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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		

#### LEAD COMPOUNDS, INORGANIC

ID: Not registered

%: Impurity/Residual	GS: <b>LT-1</b>	GS: LT-1 RC: UNK		ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH W	/ARNINGS:				
MAMMALIAN	EU - R-phrases		R20 - H	Harmful by Inhalation (gas or vapor or dust/mist)		
MAMMALIAN	EU - R-phrases		R22 - H	Harmful if Swallowed		
ACUTE AQUATIC	EU - R-phrases		R50 - \	Very Toxic to Aquatic Organisms		
DEVELOPMENTAL	EU - R-phrases		R61 - N	R61 - May cause harm to the unborn child		
REPRODUCTIVE	EU - R-phrases		R62 - F	R62 - Possible risk of impaired fertility		
DEVELOPMENTAL	G&L - Neurotoxi	G&L - Neurotoxic Chemicals		Developmental Neurotoxicant		
CANCER	US EPA - IRIS C	US EPA - IRIS Carcinogens		Group B2 - Probable human Carcinogen		
CANCER	IARC		Group	2A - Agent is probably Carcinogenic to humans		
CANCER	CA EPA - Prop 6	65	Carcino	ogen		
PBT	US EPA - Toxics	US EPA - Toxics Release Inventory PBTs				
РВТ	OR DEQ - Priori	OR DEQ - Priority Persistent Pollutants		Persistent Pollutant - Tier 1		
ACUTE AQUATIC	EU - GHS (H-Sta	atements)	H400 -	Very toxic to aquatic life		
CHRON AQUATIC	EU - GHS (H-Sta	atements)	H410 -	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	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man
GENE MUTATION	МАК	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A

## SODIUM CARBONATE

%: Impurity/Residual	gs: <b>LT-P1</b>	rc: <b>UNK</b>	NANO: <b>No</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARNIN	IGS:			
EYE IRRITATION	EU - R-phrases	EU - R-phrases		tating to eyes	
EYE IRRITATION	EU - GHS (H-Statements)		H319 - C	H319 - Causes serious eye irritation	

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ELT-P1		NANO: <b>No</b>	ROLE: Impurity/Residual	
J - R-phrases				
		R35 -	Causes severe burns	
EU - GHS (H-Statements)		H314 - Causes severe skin burns and eye damage		
orea - GHS		H290:	: May be corrosive to metals	
s process chemistry r	research			
5	process chemistry	process chemistry research	process chemistry research	process chemistry research

%: Impurity/Residual	GS: <b>LT-P1</b>	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARNIN	NGS:			
ENDOCRINE	TEDX - Potential End	docrine Disruptors	Potentia	I Endocrine Disruptor	

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ID: **497-19-8** 

#### SODIUM SULFATE



%: Impurity/Residual	GS: LT-UNK	RC: <b>UNK</b>	NANO: <b>NO</b>	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**

ID: Not registered

%: Impurity/Residual	GS: <b>LT-P1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH WAF	RNINGS:				
MAMMALIAN	EU - R-phrases		R20 - Ha	R20 - Harmful by Inhalation (gas or vapor or dust/mist)		
MAMMALIAN	EU - R-phrases	EU - R-phrases		armful if Swallowed		
ACUTE AQUATIC	EU - R-phrases	EU - R-phrases		oxic to Aquatic Organisms		
CHRON AQUATIC	EU - GHS (H-State	EU - GHS (H-Statements)		Foxic to aquatic life with long lasting effects		

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

BARIUM						
%: Impurity/Residual	GS: <b>LT-P1</b>	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:				
ENDOCRINE	TEDX - Potential	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor		

SUBSTANCE NOTES: Imported from Pharos process chemistry research

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#### **BARIUM COMPOUNDS**

ID: 191-24-2

%: Impurity/Residual	GS: LT-UNK	rc: <b>UNK</b>	NANO: <b>No</b>	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

%: Impurity/Residual	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: N	lo	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:					
PBT	US EPA - Priority F	US EPA - Priority PBTs (NWMP)					
PBT	WA DoE - PBT	WA DoE - PBT					
CANCER	US NIH - Report or	US NIH - Report on Carcinogens			Reasonably Anticipated to be Human Carcinogen		
PBT	US EPA - Toxics R	US EPA - Toxics Release Inventory PBTs					
РВТ	OSPAR - Priority F concern	OSPAR - Priority PBTs & EDs & equivalent concern			tance of Possible Concern		
PBT	OSPAR - Priority P concern	OSPAR - Priority PBTs & EDs & equivalent concern		PBT - Chen	nical for Priority Action		
РВТ	OR DEQ - Priority	Persistent Pollutants		Priority Pers	sistent Pollutant - Tier 1		

SUBSTANCE NOTES: Imported from Pharos process chemistry research

#### POLYCYCLIC AROMATIC HYDROCARBONS (PAH)

%: Impurity/Residual	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
РВТ	WA DoE - PBT		PBT	
CANCER	US NIH - Report on Carcinoge	US NIH - Report on Carcinogens		nticipated to be Human Carcinogen
РВТ	OSPAR - Priority PBTs & EDs concern	OSPAR - Priority PBTs & EDs & equivalent concern		al for Priority Action

SUBSTANCE NOTES: Imported from Pharos process chemistry research

#### POLYCYCLIC AROMATIC COMPOUNDS - COMPOUND GROUP

RC: UNK

ID: Not registered

NANO: **NO** 

HAZARDS:	AGENCY(IES) WITH WARN	NINGS:			
None Found	No warnings found	on HPD Priority lists			
SUBSTANCE NOTES: Imported fr	rom Pharos process chemis	stry research			
BORON					ID: <b>7440-42-8</b>
%: Impurity/Residual	GS: LT-UNK	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARM	NINGS:			
None Found	No warnings found	on HPD Priority lists			
SUBSTANCE NOTES: Imported fr	om Pharos process chemi	stry research			

BORON COMPOUNDS				II	D: Not registered
%: Impurity/Residual	GS: LT-UNK	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARN	INGS:			
None Found	No warnings found o	on HPD Priority lists			
SUBSTANCE NOTES: Imported from Pharos process chemistry research					

BROMINE				ID:	7726-95-6	
%: Impurity/Residual	GS: <b>LT-P1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH W.	ARNINGS:				
MAMMALIAN	EU - R-phrases		R26 - \	/ery Toxic by Inhalation		
SKIN IRRITATION	EU - R-phrases		R35 - 0	Causes severe burns		
ACUTE AQUATIC	EU - R-phrases		R50 - \	R50 - Very Toxic to Aquatic Organisms		
ACUTE AQUATIC	EU - GHS (H-Sta	tements)	H400 -	H400 - Very toxic to aquatic life		
SKIN IRRITATION	EU - GHS (H-Sta	tements)	H314 -	Causes severe skin burns and eye damage		
MAMMALIAN	EU - GHS (H-Sta	tements)	H330 -	Fatal if inhaled		
MULTIPLE	German FEA - S	ubstances Hazardous to	Waters Class 2	2 - Hazard to Waters		
MAMMALIAN	US EPA - EPCR. Substances	A Extremely Hazardous	Extrem	ely Hazardous Substances		

#### CADMIUM

%: Impurity/Residual	GS: <b>LT-1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WAR	RNINGS:		
MAMMALIAN	EU - R-phrases		R	23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases		R	25 - Toxic if Swallowed
MAMMALIAN	EU - R-phrases		R	26 - Very Toxic by Inhalation
CANCER	EU - R-phrases		R	45 - May cause cancer
ORGAN TOXICANT	EU - R-phrases			48: Danger of serious damage to health by prolonged xposure.
ACUTE AQUATIC	EU - R-phrases		R	150 - Very Toxic to Aquatic Organisms
REPRODUCTIVE	EU - R-phrases		R	62 - Possible risk of impaired fertility
DEVELOPMENTAL	EU - R-phrases		R	63 - Possible risk of harm to the unborn child
CANCER	US EPA - IRIS Ca	rcinogens	(1	1986) Group B1 - Probable human Carcinogen
CANCER	IARC		G	aroup 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65		С	arcinogen
DEVELOPMENTAL	CA EPA - Prop 65		D	evelopmental toxicity
РВТ	US EPA - Priority	PBTs (NWMP)	Р	riority PBT
РВТ	WA DoE - PBT		Р	ВТ
GENE MUTATION	EU - R-phrases		R	168 - May cause irreversible effects
REPRODUCTIVE	CA EPA - Prop 65		R	eproductive Toxicity - Male
CANCER	US CDC - Occupa	tional Carcinogens	O	Occupational Carcinogen
CANCER	US NIH - Report o	n Carcinogens	K	nown to be a human Carcinogen
CANCER	EU - SVHC Author	risation List	С	arcinogenic - Candidate list
PBT	OSPAR - Priority F concern	PBTs & EDs & equivaler	nt P	BT - Chemical for Priority Action
РВТ	OR DEQ - Priority	Persistent Pollutants	Р	riority Persistent Pollutant - Tier 1
ACUTE AQUATIC	EU - GHS (H-State	ements)	Н	1400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-State	ements)	Н	410 - Very toxic to aquatic life with long lasting effects
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-State	ements)	Н	250 - Catches fire spontaneously if exposed to air
MAMMALIAN	EU - GHS (H-State	ements)	Н	1330 - Fatal if inhaled
GENE MUTATION	EU - GHS (H-State	ements)	Н	341 - Suspected of causing genetic defects
CANCER	EU - GHS (H-State	ements)	Н	350 - May cause cancer
REPRODUCTIVE	EU - GHS (H-State	ements)		361fd - Suspected of damaging fertility. Suspected of damaging ne unborn child
ORGAN TOXICANT	EU - GHS (H-State	ements)		1372 - Causes damage to organs through prolonged or repeated xposure

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	МАК	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	МАК	Germ Cell Mutagen 3a
CANCER	Malaysia - GHS	H350 - May cause cancer
CANCER	Australia - GHS	H350 - May cause cancer

# CADMIUM COMPOUNDS

ID: Not registered

%: Impurity/Residual	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH	WARNINGS:				
CANCER	IARC		Group 1	Group 1 - Agent is Carcinogenic to humans		
CANCER	CA EPA - Prop	CA EPA - Prop 65		gen		
РВТ	WA DoE - PBT		PBT	PBT		
CANCER	US CDC - Occ	upational Carcinogens	Occupa	tional Carcinogen		
РВТ	OR DEQ - Prio	rity Persistent Pollutants	Priority	Persistent Pollutant - Tier 1		
ACUTE AQUATIC	EU - GHS (H-S	EU - GHS (H-Statements)		Very toxic to aquatic life		
CHRON AQUATIC	EU - GHS (H-S	EU - GHS (H-Statements)		Very toxic to aquatic life with long lasting effects		

CADMIUM COMPOUNDS, INORGANIC					
%: Impurity/Residual	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH W/	ARNINGS:			

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	МАК	Carcinogen Group 1 - Substances that cause cancer in man
GENE MUTATION	МАК	Germ Cell Mutagen 3a

CARBON					
%: Impurity/Residual	GS: LT-UNK	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARN	INGS:			
None Found	No warnings found o	on HPD Priority lists			

SUBSTANCE NOTES: Imported from Pharos process chemistry research

CESIUM					ID: <b>7440-46-2</b>	
%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: <b>No</b>	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH WARN	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found o	No warnings found on HPD Priority lists				
SUBSTANCE NOTES: Imported from Pharos process chemistry research						

SUBSTANCE NOTES: Imported from Pharos process chemistry research

HR		

ID: 7440-47-3

%: Impurity/Residual	GS: <b>LT-P1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH W	AGENCY(IES) WITH WARNINGS:		
RESPIRATORY	AOEC - Asthmag	AOEC - Asthmagens		gen (ARs) - sensitizer-induced - inhalable forms only
ENDOCRINE	TEDX - Potential	TEDX - Potential Endocrine Disruptors		I Endocrine Disruptor

#### COBALT

ID: 5131-66-8

%: Impurity/Residual	gs: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>N</b>	o ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH WAR	NINGS:				
RESPIRATORY	EU - R-phrases			R42 - May cause sensitization by inhalation		
SKIN SENSITIZE	EU - R-phrases			R43 - May cause sensitization by skin contact		
RESPIRATORY	AOEC - Asthmager	IS		Asthmagen (G) - generally accepted		
CANCER	IARC			Group 2B - Possibly carcinogenic to humans		
CANCER	CA EPA - Prop 65	CA EPA - Prop 65		Carcinogen		
CANCER	US NIH - Report on	US NIH - Report on Carcinogens		Reasonably Anticipated to be Human Carcinogen		
RESPIRATORY	AOEC - Asthmager	IS		Asthmagen (ARs) - sensitizer-induced - inhalable forms only		
SKIN SENSITIZE	EU - GHS (H-State	ments)		H317 - May cause an allergic skin reaction		
RESPIRATORY	EU - GHS (H-State	ments)		H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled		
MULTIPLE	German FEA - Sub	stances Hazardous to V	Vaters	Class 3 - Severe Hazard to Waters		
CANCER	MAK			Carcinogen Group 2 - Considered to be carcinogenic for man		
RESPIRATORY	МАК			Sensitizing Substance Sah - Danger of airway & skin sensitization		
GENE MUTATION	MAK			Germ Cell Mutagen 3a		

SUBSTANCE NOTES: Imported from Pharos process chemistry research

# BUTOXYPROPANOL

%: Impurity/Residual	GS: LT-UNK	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARNINGS:	AGENCY(IES) WITH WARNINGS:			
EYE IRRITATION	EU - R-phrases	EU - R-phrases		R36 - Irritating to eyes	
SKIN IRRITATION	EU - R-phrases	EU - R-phrases		ing to skin	
SKIN IRRITATION	EU - GHS (H-Statements	EU - GHS (H-Statements)		ses skin irritation	
EYE IRRITATION	EU - GHS (H-Statements	EU - GHS (H-Statements)		ses serious eye irritation	

1-PROPANOL-2-BUTOXY					ID: <b>15821-83-7</b>
%: Impurity/Residual	GS: NoGS	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WA	ARNINGS:			

PROPYLENE GLYCOL & GLYCOL ETHERS (PGES)				
GS: NOGS	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: Impurity/Residual	
AGENCY(IES) WITH WARNING	AGENCY(IES) WITH WARNINGS:			
No warnings found on	No warnings found on HPD Priority lists			
	AGENCY(IES) WITH WARNING	AGENCY(IES) WITH WARNINGS:	AGENCY(IES) WITH WARNINGS:	AGENCY(IES) WITH WARNINGS:

SUBSTANCE NOTES: Imported from Pharos process chemistry research

#### COBALT COMPOUNDS

%: Impurity/Residual	GS: <b>LT-1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH	WARNINGS:		
RESPIRATORY	AOEC - Asthma	AOEC - Asthmagens		agen (G) - generally accepted
CANCER	МАК	МАК		ogen Group 2 - Considered to be carcinogenic for man
RESPIRATORY	МАК	МАК		zing Substance Sah - Danger of airway & skin zation
GENE MUTATION	MAK	МАК		Cell Mutagen 3a

SUBSTANCE NOTES: Imported from Pharos process chemistry research

#### MAGNESIUM

ID: 7439-95-4

ID: Not registered

%: Impurity/Residual	gs: LT-UNK	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H250 - Cat	ches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H260 - In contact with water releases flammable gases w may ignite spontaneously	

MANGANESE					ID: <b>7439-96-5</b>
%: Impurity/Residual	GS: <b>LT-P1</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:			
ENDOCRINE	TEDX - Potential	TEDX - Potential Endocrine Disruptors		I Endocrine Disruptor	

MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B

#### MERCURY

HAZARDS: MAMMALIAN MAMMALIAN MAMMALIAN	AGENCY(IES) WITH WARNINGS: EU - R-phrases EU - R-phrases EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist) R26 - Very Toxic by Inhalation R27 - Very Toxic in Contact with Skin
MAMMALIAN	EU - R-phrases 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
РВТ	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 Wate	ers Class 3 - Severe Hazard to Waters
CANCER lad UB - Stonseal UT7	МАК	Carcinogen Group 3B - Evidence of carcinogenic effects but not

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		sufficient for classification
SKIN SENSITIZE	МАК	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

# MERCURY COMPOUNDS R: UNK NANO: No RoLe: Impurity/Residual %: Impurity/Residual GS: LT-1 RC: UNK NANO: No RoLe: Impurity/Residual HAZARDS: AGENCY(IES) WITH WARNINGS: Developmentation to vicity DEVELOPMENTAL CA EPA - Prop 65 Developmentation to vicity PBT US EPA - Toxics Release Inventory PBTs PBT

SUBSTANCE NOTES: Imported from Pharos process chemistry research

#### **MERCURY COMPOUNDS, INORGANIC**

%: Impurity/Residual	GS: <b>LT-1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH WARN	INGS:				
MAMMALIAN	EU - R-phrases		R26 - Very	y Toxic by Inhalation		
MAMMALIAN	EU - R-phrases		R27 - Very	y Toxic in Contact with Skin		
MAMMALIAN	EU - R-phrases		R28 - Very	y Toxic if Swallowed		
ACUTE AQUATIC	EU - R-phrases		R50 - Very	R50 - Very Toxic to Aquatic Organisms		
DEVELOPMENTAL	CA EPA - Prop 65		Developm	Developmental toxicity		
РВТ	US EPA - Toxics Re	elease Inventory PBTs	PBT			
ACUTE AQUATIC	EU - GHS (H-Staten	nents)	H400 - Ve	ry toxic to aquatic life		
CHRON AQUATIC	EU - GHS (H-Staten	nents)	H410 - Ve	ry toxic to aquatic life with long lasting effects		
MAMMALIAN	EU - GHS (H-Staten	nents)	H300 - Fai	tal if swallowed		
MAMMALIAN	EU - GHS (H-Staten	nents)	H310 - Fa	tal in contact with skin		
MAMMALIAN	EU - GHS (H-Staten	nents)	H330 - Fa	tal if inhaled		

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CANCER MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
SKIN SENSITIZE MAK	Sensitizing Substance Sh - Danger of skin sensitization

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

SUBSTANCE NOTES: Imported from Pharos process chemistry research

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NOREE				ID. <b>1440-02-0</b>		
%: Impurity/Residual	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH V	NARNINGS:				
MAMMALIAN	EU - R-phrases		R23 - <sup>-</sup>	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: E exposi	Danger of serious damage to health by prolonged ure.		
ACUTE AQUATIC	EU - R-phrases		R52 -	Harmful to Aquatic Organisms		
CANCER	IARC		Group	Group 1 - Agent is Carcinogenic to humans		
CANCER	IARC		Group	Group 2B - Possibly carcinogenic to humans		
CANCER	CA EPA - Prop	65	Carcin	Carcinogen		
CANCER	US CDC - Occu	US CDC - Occupational Carcinogens		ational Carcinogen		
CANCER	US NIH - Repor	t on Carcinogens	Reaso	nably Anticipated to be Human Carcinogen		
RESPIRATORY	AOEC - Asthma	igens	Asthm	agen (ARs) - sensitizer-induced - inhalable forms only		
SKIN SENSITIZE	EU - GHS (H-St	atements)	H317 -	- May cause an allergic skin reaction		
CANCER	EU - GHS (H-St	atements)	H351 -	- Suspected of causing cancer		
ORGAN TOXICANT	EU - GHS (H-St	EU - GHS (H-Statements)		<ul> <li>Causes damage to organs through prolonged or repeated ure</li> </ul>		
MULTIPLE	German FEA - S	Substances Hazardous to Wa	aters Class	2 - Hazard to Waters		
CANCER	MAK		Carcin	ogen Group 1 - Substances that cause cancer in man		
RESPIRATORY	МАК		Sensit sensiti	izing Substance Sah - Danger of airway & skin zation		

ID: 7440-02-0

Impurity/Residual	GS: <b>LT-1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH	I WARNINGS:				
CANCER	IARC		Group	Group 1 - Agent is Carcinogenic to humans		
CANCER	CA EPA - Prop	CA EPA - Prop 65		Carcinogen		
CANCER	US CDC - Occ	US CDC - Occupational Carcinogens		ational Carcinogen		
RESPIRATORY	AOEC - Asthm	AOEC - Asthmagens		agen (ARs) - sensitizer-induced - inhalable forms only		
CANCER	MAK	МАК		ogen Group 1 - Substances that cause cancer in man		
RESPIRATORY	МАК	МАК		zing Substance Sah - Danger of airway & skin zation		

#### POLYCYCLIC AROMATIC COMPOUNDS

%: Impurity/Residual	GS: LT-1 RC: UNK	NANO: NO ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	EU - R-phrases	R45 - May cause cancer
РВТ	EU - ESIS PBT	PBT
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
РВТ	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
РВТ	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
РВТ	EU - SVHC Authorisation List	PBT - Prioritized for listing
РВТ	EU - SVHC Authorisation List	PBT - Banned unless Authorised
РВТ	EU - SVHC Authorisation List	vPvB - Prioritized for listing
РВТ	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

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CANCEREU - GHS (H-Statements)H350 - May cause cancerREPRODUCTIVEEU - GHS (H-Statements)H360FD - May damage fertility. May damage the unborn childCANCEREU - REACH Annex XVII CMRsCarcinogen Category 1 - Substances known to be Carcinogenic to manGENE MUTATIONEU - REACH Annex XVII CMRsMutagen Category 2 - Substances which should be regarded as if they are Mutagenic to manREPRODUCTIVEEU - REACH Annex XVII CMRsMutagen Category 2 - Substances which should be regarded as if they imprive mannesMULTIPLEOhemSec - SIN ListCMR - Carcinogen, Mutagen & Kor Reproductive ToxicantPBTChemSec - SIN ListCMR - Carcinogen, Mutagen & Kor Reproductive ToxicantPBTChemSec - SIN ListCMR - Carcinogen, Mutagen & Kor Reproductive ToxicantPBTChemSec - SIN ListCMR - Carcinogen, Mutagen & Kor Reproductive ToxicantPBTChemSec - SIN ListCMR - Carcinogen Category 1A - Known human Carcinogen based on human evidenceGANCEREU - Annex VI CMRsCarcinogen Category 1B - Presumed Carcinogen based on numan evidenceGANCEREU - Annex VI CMRsCarcinogenicity - Category 1BCANCERJapan - GHSCarcinogenicity - Category 1BREPRODUCTIVEJapan - GHSFoxic to reproductive Toxicty - Category 1BREPRODUCTIVELipan - OHSToxic to reproductive - Category 1BREPRODUCTIVELipan - GHSH360 - May cause genetic defectsCANCERAustralia - GHSH360 - May cause genetic defectsCANCERAustralia - GHSH360 - May cause cancerREPROD	GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
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 are Mutagenic to man         MULTIPLE       EU - REACH Annex XVII CMRs       Toxic to Reproduction Category 2 - Substances which should be regarded as if they are Mutagenic to man         MULTIPLE       ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant         PBT       ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant         PBT       ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant         PBT       ChemSec - SIN List       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       Garcinogenicity - Category 1A         GENE MUTATION       EU - Annex VI CMRs       Garcinogenicity - Category 1A         GENE MUTATION       Japan - GHS       Garcinogenicity - Category 1B         REPR	CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
Items       Items         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 regarded as if they impair fertility or cause Developmental rocket in humans         MULTIPLE       ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant         PBT       ChemSec - SIN List       CMR - Carcinogen, Mutagen &/or Reproductive Toxicant         PBT       ChemSec - SIN List       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       Mutagen - Category 1B - Presumed Carcinogen based on human evidence         GENE MUTATION       EU - Annex VI CMRs       Carcinogen Category 1A - Known human Carcinogen based on human evidence         GENE MUTATION       EU - Annex VI CMRs       Germ cell mutagenicity - Category 1B         CANCER       Japan - GHS       Carcinogenicity - Category 1B         REPRODUCTIVE       Japan - GHS       Toxic to reproduction - Category 1B         REPRODUCTIVE       Japan - GHS       Toxic to reproduction - Category 1B         REPRODUCTIVE       Lu - Annex VI CMRs       Rep	REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
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 1B         REPRODUCTIVE       Japan - GHS       Toxic to reproduction - Category 1B         REPRODUCTIVE       EU - Annex VI CMRs       Reproductive Toxicity - Category 1B         REPRODUCTIVE       Japan - GHS       Toxic to reproduction - Category 1B         REPRODUCTIVE       EU - Annex VI CMRs       Reproductive Toxicity - Category 1B         REPRODUCTIVE       Japan - GHS       Toxic to reproduction - Category 1B         REPRODUCTIVE       EU - Annex V	CANCER	EU - REACH Annex XVII CMRs	
regarded as if they impair fertility or cause Developmental Toxicity in humansMULTIPLEChemSec - SIN ListCMR - Carcinogen, Mutagen &/or Reproductive ToxicantPBTChemSec - SIN ListPBT / vPvB (Persistent, Bioaccumulative, & Toxic / very Persistent & very Bioaccumulative, & Toxic / very Persistent & VI CMRsGENE MUTATIONEU - Annex VI CMRsGerm cell mutagenicity - Category 1BGENE MUTATIONJapan - GHSGerm cell mutagenicity - Category 1BREPRODUCTIVEJapan - GHSToxic to reproduction - Category 1BREPRODUCTIVEEU - Annex VI CMRsReproductive Toxicity - Category 1BGENE MUTATIONAustralia - GHSH340 - May cause genetic defectsCANCERAustralia - GHSH340 - May cause cancerREPRODUCTIVEAustralia - GHSH350 - May damage fertility. Suspected of damaging the	GENE MUTATION	EU - REACH Annex XVII CMRs	
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         REPRODUCTIVE       Japan - GHS       Toxic to reproduction - Category 1B         REPRODUCTIVE       Japan - GHS       Toxic to reproductive Toxicity - Category 1B         REPRODUCTIVE       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	REPRODUCTIVE	EU - REACH Annex XVII CMRs	regarded as if they impair fertility or cause Developmental
Persistent & very Bioaccumulative)MULTIPLEGerman FEA - Substances Hazardous to WatersClass 3 - Severe Hazard to WatersCANCEREU - Annex VI CMRsCarcinogen Category 1A - Known human Carcinogen based on human evidenceCANCEREU - Annex VI CMRsCarcinogen Category 1B - Presumed Carcinogen based on animal evidenceGENE MUTATIONEU - Annex VI CMRsMutagen - Category 1BCANCERJapan - GHSCarcinogencity - Category 1AGENE MUTATIONJapan - GHSCarcinogencity - Category 1BREPRODUCTIVEJapan - GHSToxic to reproduction - Category 1BREPRODUCTIVEEU - Annex VI CMRsH340 - May cause genetic defectsCANCERAustralia - GHSH350 - May cause cancerREPRODUCTIVEAustralia - GHSH360Fd - May damage fertility. Suspected of damaging the	MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCEREU - Annex VI CMRsCarcinogen Category 1A - Known human Carcinogen based on human evidenceCANCEREU - Annex VI CMRsCarcinogen Category 1B - Presumed Carcinogen based on animal evidenceGENE MUTATIONEU - Annex VI CMRsMutagen - Category 1BCANCERJapan - GHSCarcinogenicity - Category 1AGENE MUTATIONJapan - GHSGerm cell mutagenicity - Category 1BREPRODUCTIVEJapan - GHSToxic to reproduction - Category 1BREPRODUCTIVEEU - Annex VI CMRsH340 - May cause genetic defectsGENE MUTATIONAustralia - GHSH350 - May cause cancerREPRODUCTIVEAustralia - GHSH360Fd - May damage fertility. Suspected of damaging the	РВТ	ChemSec - SIN List	
human evidenceCANCEREU - Annex VI CMRsCarcinogen Category 1B - Presumed Carcinogen based on animal evidenceGENE MUTATIONEU - Annex VI CMRsMutagen - Category 1BCANCERJapan - GHSCarcinogenicity - Category 1AGENE MUTATIONJapan - GHSGerm cell mutagenicity - Category 1BREPRODUCTIVEJapan - GHSToxic to reproduction - Category 1BREPRODUCTIVEEU - Annex VI CMRsReproductive Toxicity - Category 1BGENE MUTATIONAustralia - GHSH340 - May cause genetic defectsCANCERAustralia - GHSH350 - May cause cancerREPRODUCTIVEAustralia - GHSH360Fd - May damage fertility. Suspected of damaging the	MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
animal evidenceGENE MUTATIONEU - Annex VI CMRsMutagen - Category 1BCANCERJapan - GHSCarcinogenicity - Category 1AGENE MUTATIONJapan - GHSGerm cell mutagenicity - Category 1BREPRODUCTIVEJapan - GHSToxic to reproduction - Category 1BREPRODUCTIVEEU - Annex VI CMRsReproductive Toxicity - Category 1BGENE MUTATIONAustralia - GHSH340 - May cause genetic defectsCANCERAustralia - GHSH350 - May cause genetic defectsREPRODUCTIVEAustralia - GHSH360Fd - May damage fertility. Suspected of damaging the	CANCER	EU - Annex VI CMRs	
CANCERJapan - GHSCarcinogenicity - Category 1AGENE MUTATIONJapan - GHSGerm cell mutagenicity - Category 1BREPRODUCTIVEJapan - GHSToxic to reproduction - Category 1BREPRODUCTIVEEU - Annex VI CMRsReproductive Toxicity - Category 1BGENE MUTATIONAustralia - GHSH340 - May cause genetic defectsCANCERAustralia - GHSH350 - May cause cancerREPRODUCTIVEAustralia - GHSH360Fd - May damage fertility. Suspected of damaging the	CANCER	EU - Annex VI CMRs	
GENE MUTATIONJapan - GHSGerm cell mutagenicity - Category 1BREPRODUCTIVEJapan - GHSToxic to reproduction - Category 1BREPRODUCTIVEEU - Annex VI CMRsReproductive Toxicity - Category 1BGENE MUTATIONAustralia - GHSH340 - May cause genetic defectsCANCERAustralia - GHSH350 - May cause cancerREPRODUCTIVEAustralia - GHSH360Fd - May damage fertility. Suspected of damaging the	GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
REPRODUCTIVEJapan - GHSToxic to reproduction - Category 1BREPRODUCTIVEEU - Annex VI CMRsReproductive Toxicity - Category 1BGENE MUTATIONAustralia - GHSH340 - May cause genetic defectsCANCERAustralia - GHSH350 - May cause cancerREPRODUCTIVEAustralia - GHSH360Fd - May damage fertility. Suspected of damaging the	CANCER	Japan - GHS	Carcinogenicity - Category 1A
REPRODUCTIVEEU - Annex VI CMRsReproductive Toxicity - Category 1BGENE MUTATIONAustralia - GHSH340 - May cause genetic defectsCANCERAustralia - GHSH350 - May cause cancerREPRODUCTIVEAustralia - GHSH360Fd - May damage fertility. Suspected of damaging the	GENE MUTATION	Japan - GHS	Germ cell mutagenicity - 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	REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B
CANCER     Australia - GHS     H350 - May cause cancer       REPRODUCTIVE     Australia - GHS     H360Fd - May damage fertility. Suspected of damaging the	REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
REPRODUCTIVE       Australia - GHS       H360Fd - May damage fertility. Suspected of damaging the	GENE MUTATION	Australia - GHS	H340 - May cause genetic defects
	CANCER	Australia - GHS	H350 - May cause cancer
	REPRODUCTIVE	Australia - GHS	

#### 

%: Impurity/Residual	GS: <b>LT-P1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
SKIN IRRITATION	EU - R-phrases		R34 - Ca	auses burns
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Sta	EU - GHS (H-Statements)		n contact with water releases flammable gases which te spontaneously
SKIN IRRITATION	EU - GHS (H-Sta	atements)	H314 - C	Causes severe skin burns and eye damage

# QUARTZ

ID: 14808-60-7

%: Impurity/Residual	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH	WARNINGS:		
CANCER	US CDC - Occ	US CDC - Occupational Carcinogens		ational Carcinogen
CANCER	CA EPA - Prop	CA EPA - Prop 65		ogen - specific to chemical form or exposure route
CANCER	IARC	IARC		<ol> <li>Agent is carcinogenic to humans - inhaled from tional sources</li> </ol>
CANCER	US NIH - Repo	US NIH - Report on Carcinogens		to be Human Carcinogen (respirable size - occupational
CANCER	MAK	МАК		ogen Group 1 - Substances that cause cancer in man
CANCER	New Zealand -	New Zealand - GHS		Known or presumed human carcinogens
CANCER	Australia - GHS	3	H350 -	May cause cancer

SUBSTANCE NOTES: Imported from Pharos process chemistry research

#### **CRYSTALLINE SILICAS - RESPIRABLE**

CRYSTALLINE SILICAS - RI	ESPIRABLE		ID: Not registered		
%: Impurity/Residual	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH W/	ARNINGS:			
CANCER	CA EPA - Prop 6	5	Carcinogen - specific to chemical form or exposure route		
CANCER	IARC			Agent is carcinogenic to humans - inhaled from nal sources	
CANCER	US NIH - Report	US NIH - Report on Carcinogens		be Human Carcinogen (respirable size - occupational	
CANCER	МАК	МАК		en Group 1 - Substances that cause cancer in man	

#### SELENIUM

ID: 7664-93-9

%: Impurity/Residual	GS: <b>LT-P1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH WARNIN	GS:				
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-Stateme	ents)	H400	H400 - Very toxic to aquatic life		
CHRON AQUATIC	EU - GHS (H-Stateme	ents)	H410	) - Very toxic to aquatic life with long lasting effects		
MAMMALIAN	EU - GHS (H-Stateme	ents)	H301	- Toxic if swallowed		
MAMMALIAN	EU - GHS (H-Statements)			I - Toxic if inhaled		
MULTIPLE	German FEA - Substances Hazardous to Waters			s 2 - Hazard to Waters		
CANCER	МАК			inogen Group 3B - Evidence of carcinogenic effects but not cient for classification		

SUBSTANCE NOTES: Imported from Pharos process chemistry research

#### SULFURIC ACID

%: Impurity/Residual	GS: <b>LT-P1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WA	ARNINGS:		
SKIN IRRITATION	EU - R-phrases		R35 - C	auses severe burns
RESPIRATORY	AOEC - Asthmag	ens	Asthmag	gen (Rr) - irritant-induced
SKIN IRRITATION	EU - GHS (H-Sta	tements)	H314 - (	Causes severe skin burns and eye damage
CANCER	MAK			gen Group 4 - Non-genotoxic carcinogen with low risk AK/BAT levels
MAMMALIAN	US EPA - EPCR/ Substances	A Extremely Hazardous	Extreme	ly Hazardous Substances
PHYSICAL HAZARD (REACTIVE)	Korea - GHS		H290: N	lay be corrosive to metals

SELENIUM COMPOUNDS				ID: Not registered
%: Impurity/Residual	GS: <b>LT-P1</b>	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:		
MAMMALIAN	EU - R-phrases		R23 - To	xic 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

#### SILICA, CHRISTOBALITE

ID: 14464-46-1

ID: 12401-86-4

%: Impurity/Residual	GS: <b>LT-1</b>	RC: UNK	NANO: <b>No</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH	WARNINGS:		
CANCER	US CDC - Occ	upational Carcinogens	Occupa	ational Carcinogen
CANCER	CA EPA - Prop	65	Carcino	ogen - specific to chemical form or exposure route
CANCER	IARC			1 - Agent is carcinogenic to humans - inhaled from tional sources
CANCER	US NIH - Repo	rt on Carcinogens	Known setting)	to be Human Carcinogen (respirable size - occupational
CANCER	MAK		Carcino	ogen Group 1 - Substances that cause cancer in man
CANCER	New Zealand -	GHS	6.7A - ł	Known or presumed human carcinogens
CANCER	Japan - GHS		Carcino	ogenicity - Category 1A
CANCER	Australia - GHS	3	H350 -	May cause cancer

SUBSTANCE NOTES: Imported from Pharos process chemistry research

#### SODIUM MONOXIDE

%: Impurity/Residual	GS: LT-UNK	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARN	INGS:			
None Found	No warnings found o	on HPD Priority lists			
SUBSTANCE NOTES: Imported fr	om Pharos process chemis	stry research			
STRONTIUM					ID: <b>7440-24-6</b>

%: Impurity/Residual

Stonclad UR - Stonseal UT7 www.hpd-collaborative.org GS: LT-UNK

RC: UNK

NANO: **NO** 

HAZA	DDC.
DALA	nvs.

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: <b>LT-P1</b>	RC: UNK	NANO: <b>No</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WARNIN	GS:			
MAMMALIAN	US EPA - EPCRA Ext Substances	remely Hazardous	Extreme	ly Hazardous Substances	

SUBSTANCE NOTES: Imported from Pharos process chemistry research

## THALLIUM

%: Impurity/Residual	GS: <b>LT-P1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WA	RNINGS:			
MAMMALIAN	EU - R-phrases		R26 - Ver	y Toxic by Inhalation	
MAMMALIAN	EU - R-phrases		R28 - Ver	y Toxic if Swallowed	
MAMMALIAN	EU - GHS (H-Sta	tements)	H300 - Fa	tal if swallowed	
MAMMALIAN	EU - GHS (H-Sta	tements)	H330 - Fa	tal if inhaled	
GENE MUTATION	Japan - GHS		Germ cell	mutagenicity - Category 1B	
REPRODUCTIVE	Japan - GHS		Toxic to re	eproduction - Category 1A	

SUBSTANCE NOTES: Imported from Pharos process chemistry research

TITANIUM DIOXIDE				ID: <b>13463-67-7</b>
%: Impurity/Residual	GS: <b>LT-1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH	WARNINGS:		
CANCER	US CDC - Occ	upational Carcinogens	0	ccupational Carcinogen
CANCER	CA EPA - Prop	65	C	arcinogen - specific to chemical form or exposure route
CANCER	IARC			roup 2B - Possibly carcinogenic to humans - inhaled from ccupational sources
ENDOCRINE	TEDX - Potenti	al Endocrine Disruptors	P	otential Endocrine Disruptor
CANCER	МАК			arcinogen Group 3A - Evidence of carcinogenic effects but not ufficient to establish MAK/BAT value

ID: 7440-28-0

TITANIUM DIOXIDE COMPO	OUNDS			ID: Not registered
%: Impurity/Residual	GS: <b>LT-1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH	WARNINGS:		
CANCER	US CDC - Occu	pational Carcinogens	Occupat	tional Carcinogen
CANCER	CA EPA - Prop	65	Carcino	gen - specific to chemical form or exposure route
CANCER	IARC			B - Possibly carcinogenic to humans - inhaled from ional sources
CANCER	МАК			gen Group 3A - Evidence of carcinogenic effects but not t to establish MAK/BAT value

VANADIUM				ID: <b>7440-62</b>	2-2
%: Impurity/Residual	GS: <b>LT-1</b>	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH	WARNINGS:			
MULTIPLE	German FEA -	Substances Hazardou	s to Waters Class	3 - Severe Hazard to Waters	
CANCER	MAK		Carc	nogen Group 2 - Considered to be carcinogenic for man	
GENE MUTATION	MAK		Gern	n Cell Mutagen 2	

TRICALCIUM SILICATE					ID: <b>12168-85-</b> 3
%: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH WA	RNINGS:			
None Found	No warnings found on HPD Priority lists				
SUBSTANCE NOTES: Imported fr	rom Pharos process chem	nistry research			
STANNOUS OCTOATE					ID: <b>301-10-(</b>
%: Impurity/Residual	GS: <b>LT-P1</b>	RC: UNK	nano: <b>No</b>	ROLE: Impurity/Residual	

#### 2-ETHYLHEXANOIC ACID

%: Impurity/Residual	GS: <b>LT-P1</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WAI	RNINGS:		
DEVELOPMENTAL	EU - R-phrases		R63 - Po	ossible risk of harm to the unborn child
DEVELOPMENTAL	EU - GHS (H-State	EU - GHS (H-Statements)		Suspected of damaging the unborn child
ENDOCRINE	TEDX - Potential E	TEDX - Potential Endocrine Disruptors		I Endocrine Disruptor
REPRODUCTIVE	Japan - GHS		Toxic to	reproduction - Category 1B

SUBSTANCE NOTES: Imported from Pharos process chemistry research

# **TIN DICHLORIDE**

TIN DICHLORIDE					ID: <b>7772-99-8</b>
%: Impurity/Residual	GS: <b>LT-P1</b>	rc: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARDS:	AGENCY(IES) WITH W	ARNINGS:			
ENDOCRINE	TEDX - Potential	Endocrine Disruptors	Potentia	al Endocrine Disruptor	
MULTIPLE	German FEA - Si	ubstances Hazardous to Wa	ters Class 3	- Severe Hazard to Waters	

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

SUBSTANCE NOTES: Imported from Pharos process chemistry research

DIPROPYLENE GLYCOL MONOBENZOATE						
%: Impurity/Residual	GS: NoGS	RC: UNK	NANO: <b>NO</b>	ROLE: Impurity/Residual		
HAZARDS:	AGENCY(IES) WITH WARNIN	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found o	No warnings found on HPD Priority lists				

ID: 149-57-5

#### PROPENYLOXY PROPYL BENZOATE

%: Impurity/Residual	GS: NoGS	RC: <b>UNK</b>	NANO: <b>NO</b>	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 MONOBENZOATE

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

SUBSTANCE NOTES: Imported from Pharos process chemistry research

#### POLYCYCLIC AROMATIC HYDROCARBONS

%: Impurity/Residual	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
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 - Chen	nical for Priority Action

SUBSTANCE NOTES: Imported from Pharos process chemistry research

#### POLYCYCLIC AROMATIC HYDROCARBONS (PAH)

%: Impurity/Residual	GS: <b>LT-1</b>	RC: <b>UNK</b>	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
РВТ	WA DoE - PBT		PBT	
CANCER	US NIH - Report on Carcinog	ens	Reasonably A	nticipated to be Human Carcinogen
РВТ	OSPAR - Priority PBTs & EDs & equivalent concern		PBT - Chemical for Priority Action	

SUBSTANCE NOTES: Imported from Pharos process chemistry research

ID: 197178-94-2

ID: 37086-84-3

ID: 130498-29-2

ID: Not registered

Impurity/Residual	GS: NOGS	RC: <b>UNK</b>	NANO: <b>No</b>	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HP	D Priority lists		
SUBSTANCE NOTES: Imported fi	rom Pharos process chemistry re	esearch		

# 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: <b>Self-declared</b> APPLICABLE FACILITIES: <b>All</b> CERTIFICATE URL:	ISSUE DATE: <b>2017-09-</b> 15	EXPIRY DATE:	CERTIFIER OR LAB: Berkeley Analytical	
CERTIFICATION AND COMPLIANCE NOTES:				

# **General 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

Ν

# Section 6: References

# MANUFACTURER INFORMATION

MANUFACTURER: Stonhard ADDRESS: 1000 East Park Ave Maple Shade NJ 08052, USA WEBSITE: http://www.stonhard.com

# KEY

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

**GLO** Global warming

**MUL** Multiple hazards

**OZO** Ozone depletion

**NEU** Neurotoxicity

MAM Mammalian/systemic/organ toxicity

**PBT** Persistent Bioaccumulative Toxic

## Hazard Types

AQU Aquatic toxicity CAN Cancer DEV Developmental toxicity END Endocrine activity EYE Eye irritation/corrosivity GEN Gene mutation

# GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspeci ed (insu cient 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 produc

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

Stonclad UR - Stonseal UT7 www.hpd-collaborative.org

PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

LT-P1 List Translator Possible Benchmark 1
 LT-1 List Translator Likely Benchmark 1
 LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
 NoGS Unknown (no data on List Translator Lists)

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.