

CLASSIFICATION: 12 05 13 Fabrics

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Kabuki is a form of traditional Japanese drama with highly stylized song, mime, and dance. With its organic and geometric elements in vivid striking colors, Kabuki felt like the perfect name for this graphic and impactful medium/large scale pattern. Kabuki is shown railroaded with a vertical stripe. Made in the USA.

Section 1: Summary

Nested 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

Residuals/Impurities Considered in 0 of 1 Materials

Explanation(s) provided for Residuals/Impurities?

- 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?

- Yes
- No

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..... 0
Contents highest concern GreenScreen Benchmark or List translator Score..... BM-1
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

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

FABRIC CONTENTS [COTTON NoGS POLYESTER NoGS NYLON NoGS 2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE LT-P1 | END 1,3-PENTANEDIOL, 2,2,4-TRIMETHYL-, MONOISOBUTYRATE LT-UNK | CAN 1-PROPANOL, 2-METHYL-, SODIUM SALT (1:1) NoGS TRIMETHYLPENTANE ISOMERS LT-UNK | CAN ALUMINA TRIHYDRATE BM-2 | RES ALUMINUM COMPOUNDS LT-UNK | RES NON HALOGENATED FLAME RETARDANTS NoGS FLAME RETARDANTS, NON-HALOGENATED, NON-ORGANOPHOSPHOROUS NoGS FLAME RETARDANTS NoGS AROMATIC NAPHTHA, TYPE 1 LT-1 | CAN | GEN | MAM | MUL | END 1,2-DIETHYLBENZENE LT-P1 | MUL 2-METHYL-2-PHENYLPROPANE LT-UNK DIMETHYLSYRENE NoGS DIVINYL BENZENE LT-P1 | MUL NAPHTHALENE BM-1 | MAM | CAN | AQU | PBT | MUL | END COAL TAR LT-1 | CAN BENZ[A]ANTHRACENE LT-1 | MAM | CAN | AQU | PBT | END | MUL | GEN POLYCYCLIC AROMATIC COMPOUNDS (OSHA EXCLUSIONS) LT-1 | MAM | CAN | AQU | PBT POLYCYCLIC AROMATIC COMPOUNDS - COMPOUND GROUP LT-1 | PBT POLYCYCLIC AROMATIC HYDROCARBONS (PAH) LT-1 | PBT TARS, COAL NoGS TRIMETHYL BENZENE BM-2 | MAM | EYE | SKI | AQU | MUL SOLVENT NAPHTHA (PETROLEUM), AND RELATED PROCESSED PRODUCTS NoGS COBALT NAPHTHENATE LT-1 | RES | CAN | GEN COBALT COMPOUNDS LT-1 | RES | CAN | GEN COBALT COMPOUNDS THAT RELEASE COBALT IONS IN VIVO LT-1 | CAN COBALT OCTOATE LT-1 | RES | CAN | MUL | GEN 2-ETHYLHEXANOIC ACID LT-P1 | DEV | END | REP COBALT LT-1 | RES | SKI | CAN | MUL | GEN BUTOXYPROPANOL LT-UNK | EYE | SKI 1-PROPANOL-2-BUTOXY NoGS PROPYLENE GLYCOL & GLYCOL ETHERS (PGES) NoGS OCTANOIC ACID LT-UNK | SKI CHROMIUM (III) COMPOUNDS LT-UNK | SKI DIMETHYL PHTHALATE (DMP) LT-P1 | END DIMETHYL PHTHALATE AND METABOLITE NoGS PHTHALATES (ORTHOPHTHALATES) NoGS LIMESTONE; CALCIUM CARBONATE LT-UNK CALCIUM SULFATE DIHYDRATE LT-UNK QUARTZ LT-1 | CAN CRYSTALLINE SILICAS - RESPIRABLE LT-1 | CAN SILICA, AMORPHOUS LT-P1 | CAN AMORPHOUS SILICA SUBGROUPS LISTED BY MAK COMMISSION OF GERMANY LT-UNK ZINC STEARATE LT-P1 ZINC COMPOUNDS LT-UNK]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2017-12-21

PUBLISHED DATE: 2017-12-21

EXPIRY DATE: 2020-12-21

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

FABRIC CONTENTS

#: 100.0000 - 100.0000

HPD URL:

PRODUCT THRESHOLD: Per GHS SDS

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities not considered.

OTHER MATERIAL NOTES:

COTTON

ID: Not registered

#: 38.0000 - 38.0000

GS: NoGS

RC: None

NANO: No

ROLE: Face Fiber

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLYESTER

ID: 113669-95-7

#: 36.0000 - 36.0000

GS: NoGS

RC: None

NANO: No

ROLE: Face Fiber

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

NYLON

ID: 63428-83-1

#: 26.0000 - 26.0000

GS: NoGS

RC: None

NANO: No

ROLE: Base Fiber/ Warp

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE

ID: 6846-50-0

#: 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

1,3-PENTANEDIOL, 2,2,4-TRIMETHYL-, MONOISOBUTYRATE

ID: 25265-77-4

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

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
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

1-PROPANOL, 2-METHYL-, SODIUM SALT (1:1)

ID: 13259-29-5

#: **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

TRIMETHYLPENTANE ISOMERS

ID: Not registered

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

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
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

ALUMINA TRIHYDRATE

ID: 21645-51-2

#: **Impurity/Residual** GS: **BM-2** 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

ALUMINUM COMPOUNDSID: **Not registered**

%: Impurity/Residual	GS: LT-UNK	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

SUBSTANCE NOTES: Imported from Pharos process chemistry research

NON HALOGENATED FLAME RETARDANTSID: **Not registered**

%: Impurity/Residual	GS: NoGS	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

FLAME RETARDANTS, NON-HALOGENATED, NON-ORGANOPHOSPHOROUSID: **Not registered**

%: Impurity/Residual	GS: NoGS	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

FLAME RETARDANTSID: **Not registered**

%: Impurity/Residual	GS: NoGS	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

AROMATIC NAPHTHA, TYPE 1ID: **64742-95-6**

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	EU - R-phrases	R45 - May cause cancer
GENE MUTATION	EU - R-phrases	R46 - May cause heritable genetic damage

MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are 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
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	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
GENE MUTATION	Australia - GHS	H340 - May cause genetic defects
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Imported from Pharos process chemistry research

1,2-DIETHYLBENZENE

ID: 25340-17-4

#: **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-METHYL-2-PHENYLPROPANE

ID: 98-06-6

#: **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

DIMETHYLSTYRENE

ID: 27576-03-0

#: **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

DIVINYL BENZENE

ID: **1321-74-0**

#: **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

NAPHTHALENE

ID: **91-20-3**

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

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN

EU - R-phrases

R22 - Harmful if Swallowed

CANCER

EU - R-phrases

R40 - Limited Evidence of Carcinogenic Effects

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

CANCER

US EPA - IRIS Carcinogens

(1986) Group C - Possible human Carcinogen

CANCER

IARC

Group 2B - Possibly carcinogenic to humans

CANCER

CA EPA - Prop 65

Carcinogen

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 - 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

CANCER

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

MULTIPLE

ChemSec - SIN List

CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

ENDOCRINE

ChemSec - SIN List

Endocrine Disruption

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 2 - Considered to be carcinogenic for man

COAL TAR

ID: 65996-89-6

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
%: 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
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 1 - Substances known to be Carcinogenic to man
CANCER	EU - Annex VI CMRs	Carcinogen Category 1A - Known human Carcinogen based on human evidence
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Imported from Pharos process chemistry research

BENZ[A]ANTHRACENE

ID: 56-55-3

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
%: Impurity/Residual	GS: LT-1	RC: UNK
		NANO: No
		ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R21 - Harmful in Contact with Skin
MAMMALIAN	EU - R-phrases	R25 - Toxic if Swallowed
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
CANCER	EU - R-phrases	R45 - May cause cancer
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
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
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 2 - In vitro evidence of biological activity related to Endocrine Disruption

PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
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 = 100
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
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
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	MAK	Germ Cell Mutagen 3a
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Imported from Pharos process chemistry research

POLYCYCLIC AROMATIC COMPOUNDS (OSHA EXCLUSIONS)

ID: **Not registered**

#: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases			R21 - Harmful in Contact with Skin
MAMMALIAN	EU - R-phrases			R25 - Toxic if Swallowed
CANCER	EU - R-phrases			R40 - Limited Evidence of Carcinogenic Effects
ACUTE AQUATIC	EU - R-phrases			R50 - Very Toxic to Aquatic Organisms
PBT	US EPA - Toxics Release Inventory PBTs			PBT

SUBSTANCE NOTES: Imported from Pharos process chemistry research

POLYCYCLIC AROMATIC COMPOUNDS - COMPOUND GROUP

ID: **Not registered**

#: Impurity/Residual	GS: LT-1	RC: UNK	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
PBT	US EPA - Toxics Release Inventory PBTs			PBT

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:
PBT	WA DoE - PBT
PBT	US EPA - Toxics Release Inventory PBTs
PBT	OSPAR - Priority PBTs & EDs & equivalent concern

SUBSTANCE NOTES: Imported from Pharos process chemistry research

TARS, COAL

ID: **Not registered**

#: Impurity/Residual	GS: NoGS	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

TRIMETHYL BENZENE

ID: **25551-13-7**

#: Impurity/Residual	GS: BM-2	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
MAMMALIAN	EU - R-phrases
EYE IRRITATION	EU - R-phrases
SKIN IRRITATION	EU - R-phrases
ACUTE AQUATIC	EU - R-phrases
CHRON AQUATIC	EU - GHS (H-Statements)
SKIN IRRITATION	EU - GHS (H-Statements)
EYE IRRITATION	EU - GHS (H-Statements)
MULTIPLE	German FEA - Substances Hazardous to Waters

SUBSTANCE NOTES: Imported from Pharos process chemistry research

SOLVENT NAPHTHA (PETROLEUM), AND RELATED PROCESSED PRODUCTS

ID: **Not registered**

#: Impurity/Residual	GS: NoGS	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

COBALT NAPHTHENATE

ID: **61789-51-3**

#: **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

US NIH - Report on Carcinogens

Reasonably Anticipated to be Human Carcinogen

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

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

COBALT OCTOATE

ID: 136-52-7

Role: 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	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - 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				

2-ETHYLHEXANOIC ACID

ID: 149-57-5

Role: 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				

COBALT

ID: 7440-48-4

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

OCTANOIC ACID

ID: 124-07-2

#: Impurity/Residual	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:	
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
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

DIMETHYL PHTHALATE (DMP)

ID: 131-11-3

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

SUBSTANCE NOTES: Imported from Pharos process chemistry research

DIMETHYL PHTHALATE AND METABOLITEID: **Not registered**

#: Impurity/Residual	GS: NoGS	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

PHTHALATES (ORTHOPHTHALATES)ID: **Not registered**

#: Impurity/Residual	GS: NoGS	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

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

#: **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

CALCIUM SULFATE DIHYDRATE

ID: 10101-41-4

#: **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

QUARTZ

ID: 14808-60-7

#: **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 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 - RESPIRABLE

ID: Not registered

#: **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

SILICA, AMORPHOUS

ID: 7631-86-9

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

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

ZINC STEARATE

ID: 557-05-1

%: 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

ZINC 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			

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

UL/GreenGuard Certified

CERTIFYING PARTY: Third Party	ISSUE DATE: 2017-07-28	EXPIRY DATE: 2018-10-29	CERTIFIER OR LAB: UL Environment Inc.
APPLICABLE FACILITIES: All			
CERTIFICATE URL:			

CERTIFICATION AND COMPLIANCE NOTES: Commercial furniture and furnishings are tested in accordance with ANSI/BIFMA M7.1-2011(R2016) and determined to comply with ANSI/BIFMA X7.1-2011(R2016) and ANSI/BIFMA e3-2014e Credit 7.6.1. Seating products are modeled in the seating environment with a ventilation rate of 24.8 m³/hour. Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.

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

Textile warehousing and shipping from KnollTextiles, LUBIN Building, East Greenville, Pennsylvania facility. The East Greenville Pennsylvania textile warehouse and shipping, furniture manufacturing and commercial interiors facility is LEED Existing Building Gold Certified. This facility is also ISO 14001 and ISO 9001 Certified. Textiles can be purchased without finishes as a custom order to meet specific environmental standards, however, it may not comply with some contract market standards. Prior evaluation and approval is required by KnollTextiles. Confidentiality Notice: This data is intended for the use of the individual or entity to which it is addressed and may contain confidential information that is privileged, confidential and exempt from disclosure under applicable law. Information has been provided by the supplier to the best of their knowledge at time of completion.

Section 6: References

MANUFACTURER INFORMATION

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.