

HPD UNIQUE IDENTIFIER: 23112

CLASSIFICATION: 05 05 13 Shop-Applied Coatings for Metal

PRODUCT DESCRIPTION: Duranar fluoropolymer extrusion coatings are AAMA 2605-approved 2-coat systems consisting of a patented primer and a durable color coat that combines PPG proprietary resin and pigment technologies with 70% PVDF resin. For 50 years, Duranar liquid extrusion coatings have demonstrated exceptional resistance to chalking, fading, chipping, peeling, dirt collection and chemical staining when properly applied on exterior aluminum surfaces.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input type="radio"/> Nested Materials Method</p> <p><input checked="" type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input type="radio"/> Material</p> <p><input checked="" type="radio"/> Product</p>	<p>Threshold level</p> <p><input checked="" type="radio"/> 100 ppm</p> <p><input type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p><input checked="" type="radio"/> Considered</p> <p><input type="radio"/> Partially Considered</p> <p><input type="radio"/> Not Considered</p> <p>Explanation(s) provided for Residuals/Impurities?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p>Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>% weight and role provided for all substances.</i></p> <p>Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>All substances screened using Priority Hazard Lists with results disclosed.</i></p> <p>Identified <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>All substances disclosed by Name (Specific or Generic) and Identifier.</i></p>
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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.

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

PPG DURANAR® PVDF EXTRUSION COATINGS [POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER) LT-UNK
DIMETHYL PHTHALATE (DMP) LT-P1 | END BARIUM SULFATE BM-2 |
CAN 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER, POLYMER WITH ETHYL 2-PROPENOATE LT-UNK TITANIUM DIOXIDE LT-1 | CAN
| END BISMUTH VANADIUM TETRAOXIDE LT-P1 | MUL MICA LT-UNK
CHROMIUM (III) OXIDE LT-P1 | SKI FERRIC OXIDE BM-2 | CAN
RUTILE TITANIUM DIOXIDE LT-1 | CAN LEAD SULFOCHROMATE
YELLOW (C.I. PIGMENT YELLOW 34) LT-1 | DEV | CAN | REP | PBT |
AQU | MUL | SKI | GEN CALCIUM SILICATE LT-UNK C.I. PIGMENT
BLUE 28 LT-1 | RES | CAN | GEN ALUMINA TRIHYDRATE BM-2 | RES
1,3-PENTANEDIOL, 2,2,4-TRIMETHYL-, MONOISOBUTYRATE LT-UNK
| CAN CADMIUM SULFOSELENIDE RED LT-1 | CAN | PBT | MUL TIN
TITANIUM ZINC OXIDE LT-UNK C.I. PIGMENT GREEN 50 LT-1 | RES |
CAN | GEN TIN TITANIUM ZINC OXIDE LT-UNK RUTILE, ANTIMONY
CHROMIUM BUFF LT-UNK C.I. PIGMENT BLACK 28 LT-UNK C.I.
PIGMENT BLUE 36 LT-1 | RES | CAN | GEN DIMETHYL
DIHYDROGENATED TALLOW AMMONIUM CHLORIDE, REACTION
PRODUCT WITH HECTORITE NoGS ALUMINUM LT-P1 | RES | PHY |
END SILICA, AMORPHOUS LT-P1 | CAN STRONTIUM CHROMATE LT-
1 | CAN | DEV | REP | AQU | MUL | SKI | GEN NICKEL RUTILE YELLOW
LT-1 | RES | CAN ACRYLONITRILE -METHYL-METHACRYLATE -
VINYLIDENE CHLORIDE COPOLYMER LT-P1 | END BARIUM
CHROMATE LT-1 | CAN | DEV | REP | SKI | GEN ALKENES, C>10,
ALPHA-, POLYMERISED LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 0

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

INVENTORY AND SCREENING NOTES:

Substances representing 99.9% of the product weight meet the 100 ppm threshold and are screened

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2019-01-07

PUBLISHED DATE: 2020-12-09

EXPIRY DATE: 2022-01-07

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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

PPG DURANAR® PVDF EXTRUSION COATINGS

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: PPG's Product Stewardship and Hazard Communication program requires disclosure by its raw material suppliers of all components, both intentional and residual, considered to be hazardous. PPG relies on the measurements of its raw material suppliers and the details of their disclosure in our extensive raw material introduction process. Always refer to the Product Label, Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for all safety and detailed application instructions.

OTHER PRODUCT NOTES: This declaration is for the cured final coating.

POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER)

ID: 24937-79-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

#: 30.0000 - 40.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

DIMETHYL PHTHALATE (DMP)

ID: 131-11-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

#: 10.0000 - 20.0000 GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Plasticizer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

BARIUM SULFATE

ID: 7727-43-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

#: 10.0000 - 20.0000 GS: BM-2 RC: None NANO: No SUBSTANCE ROLE: Filler

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-07**

%: **10.0000 - 20.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-07**

%: **5.0000 - 10.0000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

BISMUTH VANADIUM TETRAOXIDE

ID: 14059-33-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-07**

%: **0.0100 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

MICA

ID: 12001-26-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-07**

%: **0.0100 - 5.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

CHROMIUM (III) OXIDE

ID: 1308-38-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-07**

#: **0.0100 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

FERRIC OXIDE

ID: 1309-37-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-07**

#: **0.0100 - 1.0000** GS: **BM-2** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

RUTILE TITANIUM DIOXIDE

ID: 1317-80-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-07**

#: **0.0100 - 1.0000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

LEAD SULFOCHROMATE YELLOW (C.I. PIGMENT YELLOW 34)

ID: 1344-37-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-07**

#: **0.0100 - 1.0000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen

CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs	PBT
CANCER	EU - SVHC Authorisation List	Carcinogenic - Candidate list
CANCER	EU - SVHC Authorisation List	Carcinogenic - Banned unless Authorised
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Banned unless Authorised
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)	H350 - May cause cancer
DEVELOPMENTAL	EU - GHS (H-Statements)	H360Df - May damage the unborn child. Suspected of damaging fertility
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
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
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
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
CANCER	Japan - GHS	Carcinogenicity - Category 1B
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1

GENE MUTATION	MAK	Germ Cell Mutagen 2
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
CANCER	Australia - GHS	H350 - May cause cancer
DEVELOPMENTAL	Australia - GHS	H360Df - May damage the unborn child. Suspected of damaging fertility

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

CALCIUM SILICATE

ID: 1344-95-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-07		
#: 0.0100 - 1.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

C.I. PIGMENT BLUE 28

ID: 1345-16-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-07		
#: 0.0100 - 1.0000	GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	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: Range listed represents standard manufacturing variability.

ALUMINA TRIHYDRATE

ID: 21645-51-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-07		
#: 0.0100 - 1.0000	GS: BM-2	RC: None	NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

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

ID: 25265-77-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-07		
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#: 0.0100 - 1.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Coalescent

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

CADMIUM SULFOSELENIDE RED

ID: 58339-34-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

#: 0.0100 - 1.0000 GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Pigment

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
MULTIPLE	German FE A - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

TIN TITANIUM ZINC OXIDE

ID: 923954-49-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

#: 0.0100 - 1.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Pigment

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

C.I. PIGMENT GREEN 50

ID: 68186-85-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

#: 0.0100 - 1.0000 GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Pigment

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a 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: Range listed represents standard manufacturing variability.

TIN TITANIUM ZINC OXIDE

ID: 923954-49-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-07		
%: 0.0100 - 1.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

RUTILE, ANTIMONY CHROMIUM BUFF

ID: 68186-90-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-07		
%: 0.0100 - 1.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

C.I. PIGMENT BLACK 28

ID: 68186-91-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-07		
%: 0.0100 - 1.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

%: 0.0100 - 1.0000 GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Pigment

HAZARD TYPE	AGENCY AND LIST TITLES	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: Range listed represents standard manufacturing variability.

DIMETHYL DIHYDROGENATED TALLOW AMMONIUM CHLORIDE, REACTION PRODUCT WITH HECTORITE

ID: 71011-27-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

%: 0.0100 - 1.0000 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Viscosity modifier

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

ALUMINUM

ID: 7429-90-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

%: 0.0100 - 1.0000 GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Pigment

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

SILICA, AMORPHOUS

ID: 7631-86-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

%: 0.0100 - 1.0000 GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Filler

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

STRONTIUM CHROMATE

ID: 7789-06-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-01-07			
%: 0.0100 - 5.0000		GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans			
CANCER	CA EPA - Prop 65	Carcinogen			
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity			
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female			
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male			
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen			
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen			
CANCER	EU - SVHC Authorisation List	Carcinogenic - Banned unless Authorised			
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)	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			
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters			
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man			
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization			
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]			
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence			
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens			
CANCER	Japan - GHS	Carcinogenicity - Category 1A			
GENE MUTATION	MAK	Germ Cell Mutagen 2			
CANCER	Australia - GHS	H350 - May cause cancer			

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

%: 0.0100 - 1.0000 GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Pigment

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

ACRYLONITRILE -METHYL-METHACRYLATE -VINYLIDENE CHLORIDE
COPOLYMER

ID: 25036-25-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

%: 0.0100 - 5.0000 GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

BARIUM CHROMATE

ID: 10294-40-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-01-07

%: 0.0100 - 5.0000 GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Pigment

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	Japan - GHS	Carcinogenicity - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 2
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

ALKENES, C>10, ALPHA-, POLYMERISED

ID: 68527-08-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-01-07**

%: **0.0100 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Solvent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

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 V1.2 (Section 01350/CHPS) - Classroom & Office scenario

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2019-01-

EXPIRY DATE:

CERTIFIER OR LAB: None

APPLICABLE FACILITIES: All

07

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: Product is yet to be tested

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

Please note PPG has a strong Product Stewardship and Hazard Communication program. While some raw material suppliers may choose to keep chemical substances proprietary, PPG requires them to fully disclose hazards. All PPG products, in turn, reflect those hazards. In instances where CAS numbers are not available, PPG relies on extensive internal, external, and raw material supplier resources to assign representative CAS numbers for this screening that represent the chemical family and associated hazards.

MANUFACTURER INFORMATION

MANUFACTURER: PPG Architectural Finishes
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 Strongsville Ohio 44149, USA
WEBSITE: www.ppg.com

CONTACT NAME: Jim Kantola
TITLE: Product Stewardship Manager - Americas
PHONE: +1 (440)-384-7590
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The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	NoGS No GreenScreen.

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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.