

HPD UNIQUE IDENTIFIER: 22655

CLASSIFICATION: 09 91 23 Interior Painting

PRODUCT DESCRIPTION: This assessment of product 59188 Flat Midtone Base is limited to the base formulas not including tint. Dulux® Lifemaster is our leading Canadian 'green' building standards product and is free of volatile organic compounds (VOCs) before tinting. Please note, colorants added to base paints may increase the VOC significantly depending on color choice. Dulux Lifemaster Matt, Eggshell, Pearl and Semigloss finishes are available in a complete line of tinting bases offering the ability to achieve over 6,000 decorator colours, from the lightest offwhites to the deepest, cleanest shades.

## Section 1: Summary

## Basic Method / Product Threshold

### CONTENT INVENTORY

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

### 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**

**DULUX LIFEMASTER ACRYLIC LATEX 59188** [ **WATER** **BM-4**  
**NEPHELINE SYENITE** **LT-UNK** **UNDISCLOSED** **LT-UNK** **TITANIUM**  
**DIOXIDE** **LT-1** | CAN | END **KAOLIN, CALCINED** **LT-UNK** **HEXANOIC**  
**ACID, 2-ETHYL-, DIESTER WITH TETRAETHYLENE GLYCOL**  
**(HEXANOIC ACID, 2-ETHYL-, DIESTER WITH TETRAETHYLENE**  
**GLYCOL)** **LT-UNK** **ALUMINUM HYDROXIDE, DRIED** **BM-2**  
**UNDISCLOSED** **LT-1** | CAN | MUL  
**CETYLHYDROXYETHYLCELLULOSE** **LT-UNK** **SILICON DIOXIDE** **BM-1**  
| CAN **MACROGOL** **LT-UNK** **POLYOXYETHYLENE BRANCHED C9**  
**ALKYLPHENOL ETHER** **BM-1tp** | END | MUL | REP | AQU | DEV  
**POLYACRYLIC ACID, SODIUM SALT** **LT-UNK** **POLY(OXY-1,2-**  
**ETHANEDIYL), ALPHA-TRIDECYL-OMEGA-HYDROXY-, ISOCTYL**  
**PHOSPHATE, POTASSIUM SALT** **LT-UNK** ]

Number of Greenscreen BM-4/BM3 contents ... 1

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

### INVENTORY AND SCREENING NOTES:

Substances representing 99.5% of the product weight meet the 1000 pm Threshold and are Screened.

### VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0 g/L Regulatory (g/l): 0 g/L  
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: GreenGuard - Indoor Air Quality Certified  
VOC emissions: GreenGuard - Gold (previously Children & Schools)  
VOC content: SCAQMD Rule 1113 Architectural Coatings

### CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2020-10-26

PUBLISHED DATE: 2020-10-26

EXPIRY DATE: 2023-10-26

## 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](http://www.hpd-collaborative.org/hpd-2-2-standard)

### DULUX LIFEMASTER ACRYLIC LATEX 59188

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: 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: Two products are covered by this HPD. They are both acrylic latex waterborne interior paints which function similarly. All information provided in Section 3: Certificates and Compliance applies to each product. The content differences between the products accounts for 10% or less of the total mass of each product.

#### WATER

ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**

#: **45.0000 - 55.0000** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Diluent**

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.

#### NEPHELINE SYENITE

ID: 37244-96-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**

#: **15.0000 - 20.0000** 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.

#### UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**

#: **14.0000 - 18.0000** 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. The identification of this chemical substance is not being disclosed because the raw material supplier was unable or unwilling to disclose it. For the purpose of this screening, PPG relied on extensive internal, external, and raw material supplier resources to assign CAS numbers that represent the chemical family and associated hazards.

### TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**

#: **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. Titanium dioxide (TiO<sub>2</sub>) has been classified as a GHS carcinogen category 2 based on its IARC 2B classification. In this case, the TiO<sub>2</sub> particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO<sub>2</sub> when the product is applied by a brush or roller. Range listed represents the variation between the 2 products covered under this HPD and as well as standard manufacturing variability.

### KAOLIN, CALCINED

ID: 92704-41-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**

#: **4.0000 - 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.

### HEXANOIC ACID, 2-ETHYL-, DIESTER WITH TETRAETHYLENE GLYCOL (HEXANOIC ACID, 2-ETHYL-, DIESTER WITH TETRAETHYLENE GLYCOL)

ID: 18268-70-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**

#: **0.1000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coalescent**

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: **2020-10-26**%: **0.1000 - 1.0000** GS: **BM-2** 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.

**UNDISCLOSED**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**%: **0.1000 - 1.0000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Solvent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	GHS - Australia	H350 - May cause cancer

SUBSTANCE NOTES: Range listed represents the standard manufacturing variability. Identification of this substance is not being disclosed due to raw material supplier holding chemical substance as proprietary. For the purpose of this screening, PPG relies on extensive internal, external, and raw material supplier resources to assign CAS numbers that represent the chemical family and associated hazards.

**CETYLHYDROXYETHYLCELLULOSE**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**%: **0.1000 - 1.0000** GS: **LT-UNK** 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.

**SILICON DIOXIDE**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**%: **0.1000 - 1.0000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	GHS - Japan	Carcinogenicity - Category 1A [H350]
CANCER	GHS - Australia	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**%: **0.1000 - 1.0000** GS: **LT-UNK** 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.

**POLYOXYETHYLENE BRANCHED C9 ALKYLPHENOL ETHER**

ID: 68412-54-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**%: **0.1000 - 1.0000** GS: **BM-1tp** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surfactant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - Chemical for Priority Action
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - Action Plan in development
ENDOCRINE	ChemSec - SIN List	Endocrine Disruption
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
REPRODUCTIVE	US EPA - PPT Chemical Action Plans	Reproductive effects
CHRON AQUATIC	US EPA - PPT Chemical Action Plans	Highly toxic to aquatic organisms
DEVELOPMENTAL	US EPA - PPT Chemical Action Plans	Developmental Effects
ENDOCRINE	EU - SVHC Authorisation List	Equivalent Concern - Candidate List

SUBSTANCE NOTES: Range listed represents standard manufacturing variability.

**POLYACRYLIC ACID, SODIUM SALT**

ID: 9003-04-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**%: **0.1000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surfactant**

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.

**POLY(OXY-1,2-ETHANEDIYL), ALPHA-TRIDECYL-OMEGA-HYDROXY-, ISOCTYL PHOSPHATE, POTASSIUM SALT**

ID: 68186-41-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-26**%: **0.1000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surfactant**

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

#### GreenGuard - Indoor Air Quality Certified

CERTIFYING PARTY: Third Party

ISSUE DATE: 2020-01-13

EXPIRY DATE: 2021-02-07

CERTIFIER OR LAB: UL Laboratories

APPLICABLE FACILITIES: All

CERTIFICATE URL: [https://spot.ul.com/main-app/products/detail/5e1c942455b0e844183d7792?page\\_type=Products%20Catalog](https://spot.ul.com/main-app/products/detail/5e1c942455b0e844183d7792?page_type=Products%20Catalog)

CERTIFICATION AND COMPLIANCE NOTES: No additional notes.

### VOC EMISSIONS

#### GreenGuard - Gold (previously Children & Schools)

CERTIFYING PARTY: Third Party

ISSUE DATE: 2020-01-13

EXPIRY DATE: 2021-02-07

CERTIFIER OR LAB: UL Laboratories

APPLICABLE FACILITIES: All

CERTIFICATE URL: [https://spot.ul.com/main-app/products/detail/5e1c942455b0e844183d7792?page\\_type=Products%20Catalog](https://spot.ul.com/main-app/products/detail/5e1c942455b0e844183d7792?page_type=Products%20Catalog)

CERTIFICATION AND COMPLIANCE NOTES: No additional notes.

### VOC CONTENT

#### SCAQMD Rule 1113 Architectural Coatings

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2018-12-21

EXPIRY DATE:

CERTIFIER OR LAB: none

APPLICABLE FACILITIES: All

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: VOC content is a calculated value based on EPA Method 24.

## 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.*

### PPG NEXT GENERATION COLORANT SYSTEM

HPD URL: no HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

PPG Next Generation Colorant System is a low VOC line of colorants composed of 12 tints which can be combined to create over 6000 colors. When added to Lifemaster base paints at maximum tint load for any color, the Next Generation tints contribute less than 8 g/L of VOC to the final tinted product.

## Section 5: General Notes

Please note PPG has a strong Product Stewardship and Hazard Communication program. While 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  
**ADDRESS:** One PPG Place  
 Pittsburgh PA 15272, USA  
**WEBSITE:** [www.dulux.ca/diy/products/interior-paint/dulux-lifemaster](http://www.dulux.ca/diy/products/interior-paint/dulux-lifemaster)

**CONTACT NAME:** Architectural Coatings Technical Advise Center  
**TITLE:** Technical Advisor  
**PHONE:** 1-800-441-9695  
**EMAIL:** [techservicerequests@ppg.com](mailto:techservicerequests@ppg.com)

*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**

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

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-1</b> List Translator 1 (Likely Benchmark-1)
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-UNK</b> 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.)
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>NoGS</b> No GreenScreen.
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	
<b>BM-U</b> Benchmark Unspecified (due to insufficient data)	
<b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1)	

**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.*