ULTRA SPEC EXT FLAT FINISH (N447) by Benjamin Moore & Co.

CLASSIFICATION: 09 00 00.00 Finishes: Finishes

PRODUCT DESCRIPTION: A professional quality 100% acrylic exterior flat finish which features excellent hiding, film durability and color retention. Fast-dry formula allows for quick re-coating as well as low temperature application.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

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
--- | --- | --- | --- | ---
ULTRA SPEC EXT FLAT FINISH (N447) | WATER BM-4 | NEPHELITE SYENITE LT-UNK | TITANIUM DIOXIDE LT-1 | CAN | END METHYL METHACRYLATE, COPOLYMER WITH BUTYL ACRYLATE LT-UNK | ZINC OXIDE BM-1 | RES | AQU | MUL DIATOMACEOUS EARTH (UNCALCINED) LT-UNK | 1,3-PENTANEDIOL, 2,2,4-TRIMETHYL-, MONOISOBUTYRATE LT-UNK | CAN | SILICA, AMORPHOUS LT-P1 | RES | AQU | HYDROXYETHYL CELLULOSE LT-P1 | END | OCTYLPHENOXY POLYETHOXETHANOL LT-P1 | CAN | SILICA, AMORPHOUS LT-P1 | RES | AQU | PROPYLENE GLYCOL BM-2 | END | ALKENES, C14-16 ALPHA-, SULFONATED, SODIUM SALTS LT-UNK |

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 19
Regulatory (g/l): 47
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: Exterior Product - no emission certification
VOC content: SCAQMD Rule 1113 Architectural Coatings - Flats, floor coatings, non flat coatings, quick dry enamels, roof coatings only - 2007 amendments

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER: Verification #: 
SCREENING DATE: 2018-08-31
PUBLISHED DATE: 2018-08-31
EXPIRY DATE: 2021-08-31
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

ULTRA SPEC EXT FLAT FINISH (N447)

PRODUCT THRESHOLD: 100 ppm  
RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Based on information provided by raw material suppliers

OTHER PRODUCT NOTES: None

WATER

ID: 7732-18-5

%: 40.0000 - 50.0000  
GS: BM-4  
RC: None  
NANO: No  
ROLE: Thinner/solvent

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

SUBSTANCE NOTES: None

NEPHELINE SYENITE

ID: 37244-96-5

%: 15.0000 - 20.0000  
GS: LT-UNK  
RC: None  
NANO: No  
ROLE: Extender filler

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

SUBSTANCE NOTES: None

TITANIUM DIOXIDE

ID: 13463-67-7

%: 10.0000 - 15.0000  
GS: LT-1  
RC: None  
NANO: No  
ROLE: Color Pigment

HAZARDS:  
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
<table>
<thead>
<tr>
<th>Substance</th>
<th>MAK</th>
<th>CARCINOGEN GROUP</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>MAK</th>
<th>CARCINOGEN GROUP</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>3A</td>
<td>Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>4</td>
<td>Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
</tr>
</tbody>
</table>

| Substance Notes | None |

<table>
<thead>
<tr>
<th>Substance</th>
<th>MAK</th>
<th>CARCINOGEN GROUP</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYL METHACRYLATE, COPOLYMER WITH BUTYL ACRYLATE</td>
<td>%: 10.0000 - 15.0000</td>
<td>MAK</td>
<td>Binder</td>
</tr>
<tr>
<td>ID: 25852-37-3</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
</tr>
</tbody>
</table>

| Substance Notes | None |

<table>
<thead>
<tr>
<th>Substance</th>
<th>MAK</th>
<th>CARCINOGEN GROUP</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZINC OXIDE</td>
<td>%: 1.0000 - 5.0000</td>
<td>MAK</td>
<td>Additive</td>
</tr>
<tr>
<td>ID: 1314-13-2</td>
<td>GS: BM-1</td>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (ARs) - sensitizer-induced - inhalable forms only</td>
<td></td>
</tr>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H400 - Very toxic to aquatic life</td>
<td></td>
</tr>
<tr>
<td>CHRON AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H410 - Very toxic to aquatic life with long lasting effects</td>
<td></td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
<td></td>
</tr>
</tbody>
</table>

| Substance Notes | None |

<table>
<thead>
<tr>
<th>Substance</th>
<th>MAK</th>
<th>CARCINOGEN GROUP</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIATOMACEOUS EARTH (UNCALCINED)</td>
<td>%: 1.0000 - 5.0000</td>
<td>MAK</td>
<td>Extender filler</td>
</tr>
<tr>
<td>ID: 61790-53-2</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
</tr>
</tbody>
</table>

| Substance Notes | None |

<table>
<thead>
<tr>
<th>Substance</th>
<th>MAK</th>
<th>CARCINOGEN GROUP</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-PENTANEDIOL, 2,2,4-TRIMETHYL-, MONOISOBUTYRATE</td>
<td>%: 0.5000 - 1.0000</td>
<td>MAK</td>
<td>Coalescing agent</td>
</tr>
<tr>
<td>ID: 25265-77-4</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Substance</td>
<td>MAK</td>
<td>Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>SILICA, AMORPHOUS</strong></td>
<td><strong>ID:</strong> 7631-86-9</td>
<td>-----------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>%: Impurity/Residual</td>
<td>GS: LT-P1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: Impurity/Residual</td>
<td>RC: None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: Impurity/Residual</td>
<td>NANO: No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: Impurity/Residual</td>
<td>ROLE: Impurity/Residual</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>Japan - GHS</td>
<td>Carcinogenicity - Category 1A</td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>Australia - GHS</td>
<td>H350i - May cause cancer by inhalation</td>
<td></td>
</tr>
<tr>
<td><strong>SUBSTANCE NOTES:</strong></td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HYDROXYETHYL CELLULOSE</strong></td>
<td><strong>ID:</strong> 9004-62-0</td>
<td>-----------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>GS: LT-P1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>RC: None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>NANO: No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>ROLE: Rheology modifier</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
<td></td>
</tr>
<tr>
<td><strong>SUBSTANCE NOTES:</strong></td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>OCTYLPHENOXY POLYETHOXYETHANOL</strong></td>
<td><strong>ID:</strong> 9036-19-5</td>
<td>-----------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>GS: LT-P1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>RC: None</td>
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<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>NANO: No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>ROLE: Surfactant</td>
<td></td>
<td></td>
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<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>ChemSec - SIN List</td>
<td>Endocrine Disruption</td>
<td></td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
<td></td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 3 - Severe Hazard to Waters</td>
<td></td>
</tr>
<tr>
<td><strong>SUBSTANCE NOTES:</strong></td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES</strong></td>
<td><strong>ID:</strong> 64742-65-0</td>
<td>-----------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>GS: LT-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>RC: None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>NANO: No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: 0.1000 - 0.5000</td>
<td>ROLE: Defoamer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### ALUMINA TRIHYDRATE
**ID:** 21645-51-2

<table>
<thead>
<tr>
<th>%:</th>
<th>Impurity/Residual</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

**HAZARDS:**

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

**SUBSTANCE NOTES:** None

### PROPYLENE GLYCOL
**ID:** 57-55-6

<table>
<thead>
<tr>
<th>%:</th>
<th>0.1000 - 0.5000</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Additive</th>
</tr>
</thead>
</table>

**HAZARDS:**

| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |

**SUBSTANCE NOTES:** None

### ALKENES, C14-16 ALPHA-, SULFONATED, SODIUM SALTS
**ID:** 68439-57-6

<table>
<thead>
<tr>
<th>%:</th>
<th>0.1000 - 0.5000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Additive</th>
</tr>
</thead>
</table>

**HAZARDS:**

None Found

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** None
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

**Exterior Product - no emission certification**

- **CERTIFYING PARTY:** Self-declared
- **APPLICABLE FACILITIES:** All
- **CERTIFICATE URL:**
- **ISSUE DATE:** 2018-08-31
- **EXPIRY DATE:**
- **CERTIFIER OR LAB:** None
- **CERTIFICATION AND COMPLIANCE NOTES:** No emission certifications available for exterior products.

### VOC CONTENT

**SCAQMD Rule 1113 Architectural Coatings - Flats, floor coatings, non flat coatings, quick dry enamels, roof coatings only - 2007 amendments**

- **CERTIFYING PARTY:** Self-declared
- **APPLICABLE FACILITIES:** All
- **CERTIFICATE URL:**
- **ISSUE DATE:** 2018-08-31
- **EXPIRY DATE:**
- **CERTIFIER OR LAB:** None
- **CERTIFICATION AND COMPLIANCE NOTES:** None

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.

**GENNEX COLORANTS (229)**

- **HPD URL:** No HPD available
- **CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:** Required for all tinted products.

Section 5: General Notes

SDS and TDS available on www.benjaminmoore.com
MANUFACTURER INFORMATION

MANUFACTURER: Benjamin Moore & Co.
ADDRESS: 101 Paragon Drive
          101 Paragon Drive
          Montvale NJ 07645, United States
WEBSITE: www.Benjaminmoore.com

CONTACT NAME: Edja Kouassi
TITLE: Technical Project Manager
PHONE: 9732522607
EMAIL: Edja.kouassi@benjaminmoore.com

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
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
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

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 Unspecified (insufficient data to benchmark)
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)

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.