

CLASSIFICATION: 09 06 90.00 FINISHES: SCHEDULES FOR PAINTING AND COATING

created via: HPDC Online Builder

PRODUCT DESCRIPTION: THE ECOS EMR SHIELDING PAINT IS A CONDUCTIVE WALL TREATMENT PROVIDING SHIELDING AGAINST ELF/VLF/EMR RADIATIONS PERMANENTLY. NO SPECIAL EQUIPMENT OR EXPERTISE IS REQUIRED TO APPLY AND PROVIDES PERMANENT SHIELDING AGAINST ELECTROMAGNETIC RADIATION IN THE HOME AND WORKPLACE.

**Section 1: Summary**

**CONTENT INVENTORY**

Threshold per material	Residuals and impurities considered in 0 of 1 materials
<input checked="" type="radio"/> 100 ppm	<input checked="" type="radio"/> see Section 2: Material Notes
<input type="radio"/> 1,000 ppm	<input type="radio"/> see Section 5: General Notes
<input type="radio"/> Per GHS SDS	
<input type="radio"/> Per OSHA MSDS	
<input type="radio"/> Other	

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input type="radio"/>	<input checked="" type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input type="radio"/>	<input checked="" type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	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.

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

PRIMER [ WATER **BM-4** TITANIUM DIOXIDE **LT-1** | CAN **UNDISCLOSED** **LT-UNK** KAOLIN CLAY (CALCINED) **LT-P1** | MUL LIMESTONE; CALCIUM CARBONATE **LT-UNK** **UNDISCLOSED** **LT-UNK** ALUMINUM OXIDE **LT-UNK** | RES ZIRCONIUM DIOXIDE **LT-UNK** **UNDISCLOSED** **LT-UNK** **UNDISCLOSED** **LT-UNK** HECTORITE **LT-UNK** SODIUM OXIDE **LT-UNK** GLYCERIN **LT-UNK** **UNDISCLOSED** **LT-1** | CAN | MUL QUARTZ **LT-1** | CAN **UNDISCLOSED** **LT-UNK** **UNDISCLOSED** **LT-UNK** **UNDISCLOSED** **LT-P1** | MUL **UNDISCLOSED** **UNK** **UNDISCLOSED** **LT-P1** | MAM | SKI | EYE | AQU | END | MUL XANTHAN GUM **LT-UNK** AMMONIUM HYDROXIDE **LT-P1** | SKI | AQU | RES | MUL **UNDISCLOSED** **LT-P1** | MUL ]

Number of Greenscreen BM-4/BM3 contents..... 1  
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1  
Nanomaterial..... No

**INVENTORY AND SCREENING NOTES:**

This HPD has previously been Third Party Verified by ToxServices LLC under the HPD 1.0 Third Party Verification Pilot Program.

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

**CERTIFICATIONS AND COMPLIANCE**

VOC emissions: U.S. EPA SW-846 Method 8260B (VOC); EPA SW-846 Method 8015C (Organics); EPA Method 8315A (Formaldehyde). SM 2540G (Volatile Solids)  
VOC content: ASTM D-4236 Certification of Toxicological Risk Assessment for Decorative and Artistic Paints  
Other: BS-EN-71-3 Test for Heavy Metals in Paints and Coatings for use in Children's Toys

See Section 3 for additional listings.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: December 1, 2016	EXPIRY DATE*: December 1, 2019
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: April 21, 2017	* or within 3 months of significant change in product contents
*See HPDC website for details			



## Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: [www.hpd-collaborative.org](http://www.hpd-collaborative.org) and [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org).

### PRIMER

%: 100.0000

HPD URL:

Inventory Threshold: 100 ppm

Residuals Considered: No

Material Notes: Entire product is considered as one homogeneous material

### WATER

ID: 7732-18-5

%: 41.9600 - 50.1700

GS: BM-4

RC: None

NANO: NO

ROLE: Vehicle

### HAZARDS:

### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient range present in product formulation.

### TITANIUM DIOXIDE

ID: 13463-67-7

%: 15.5600

GS: LT-1

RC: None

NANO: NO

ROLE: Extender Pigment

### HAZARDS:

### AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen (form-specific or based on limited exposure pathways)

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: Maximum % ingredient present in product formulation.

### UNDISCLOSED

%: 7.5000 - 15.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Binder Component

### HAZARDS:

### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient range present in product formulation. Chemical Trade Name and CAS# information is undisclosed due to it being considered proprietary information by the supplier to Imperial Paints.

**KAOLIN CLAY (CALCINED)**

ID: 66402-68-4

%: 6.6000      GS: LT-P1      RC: None      NANO: NO      ROLE: Extender Pigment

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

MULTIPLE      German FEA - Substances Hazardous to Waters      Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES: Maximum % ingredient present in product formulation. ts.

**LIMESTONE; CALCIUM CARBONATE**

ID: 1317-65-3

%: 5.5700      GS: LT-UNK      RC: None      NANO: NO      ROLE: Extender Pigment

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found      No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient present in product formulation.

**UNDISCLOSED**

%: 3.7700      GS: LT-UNK      RC: None      NANO: NO      ROLE: Foam Control Agent / Extender Pigment / Adsorbents Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found      No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient present in product formulation. Chemical Trade Name and CAS# information is undisclosed due to it being considered proprietary information by the supplier to Imperial Paints.

**ALUMINUM OXIDE**

ID: 1344-28-1

%: 3.0000      GS: LT-UNK      RC: None      NANO: NO      ROLE: Extender Pigment

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

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

SUBSTANCE NOTES: Maximum % ingredient present in product formulation.

**ZIRCONIUM DIOXIDE**

ID: 1314-23-4

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%: 0.3800	GS: LT-UNK	RC: None	NANO: NO	ROLE: Extender Pigment
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient present in product formulation.

**UNDISCLOSED**

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%: 0.2900	GS: LT-UNK	RC: None	NANO: NO	ROLE: Rheological Additive Component
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient present in product formulation. Chemical Trade Name and CAS# information is undisclosed due to it being considered proprietary information by the supplier to Imperial Paints.

**UNDISCLOSED**

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%: 0.2500 - 1.2000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Binder Component
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient range present in product formulation. Chemical Trade Name and CAS# information is undisclosed due to it being considered proprietary information by the supplier to Imperial Paints.

**HECTORITE**

ID: 12173-47-6

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%: 0.2100	GS: LT-UNK	RC: None	NANO: NO	ROLE: Rheological Additive Component
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**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient present in product formulation

**SODIUM OXIDE**

ID: 1313-59-3

%: 0.2000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Adsorbents  
Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient present in product formulation.

**GLYCERIN**

ID: 56-81-5

%: 0.1200

GS: LT-UNK

RC: None

NANO: NO

ROLE: Retarder  
Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient present in product formulation.

**UNDISCLOSED**

%: 0.1100

GS: LT-1

RC: None

NANO: NO

ROLE: Foam Control  
Agent

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

CANCER

EU - R-phrases

R45 - May cause cancer

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

SUBSTANCE NOTES: Maximum % ingredient present in product formulation. Chemical Trade Name and CAS# information is undisclosed due to it being considered proprietary information by the supplier to Imperial Paints.

**QUARTZ**

ID: 14808-60-7

%: 0.0600

GS: LT-1

RC: None

NANO: NO

ROLE: Extender Pigment

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

CANCER

IARC

Group 1 - Agent is Carcinogenic to humans

CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen (form-specific or based on limited exposure pathways)
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: Maximum % ingredient present in product formulation.

**UNDISCLOSED**

%: 0.0500 - 0.0900      GS: LT-UNK      RC: None      NANO: NO      ROLE: Binder Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient range present in product formulation. Chemical Trade Name and CAS# information is undisclosed due to it being considered proprietary information by the supplier to Imperial Paints.

**UNDISCLOSED**

%: 0.0300 - 0.2500      GS: LT-UNK      RC: None      NANO: NO      ROLE: Binder Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient range present in product formulation. Chemical Trade Name and CAS# information is undisclosed due to it being considered proprietary information by the supplier to Imperial Paints.

**UNDISCLOSED**

%: 0.0200      GS: LT-P1      RC: None      NANO: NO      ROLE: Rheological Additive Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

MULTIPLE

German FEA - Substances Hazardous to Waters      Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES: Maximum % ingredient present in product formulation. Chemical Trade Name and CAS# information is undisclosed due to it being considered proprietary information by the supplier to Imperial Paints.

UNDISCLOSED

%: 0.0200 - 0.0500      GS: UNK      RC: None      NANO: NO      ROLE: Binder Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient range present in product formulation. Chemical Trade Name and CAS# information is undisclosed due to it being considered proprietary information by the supplier to Imperial Paints.

UNDISCLOSED

%: 0.0200 - 0.2500      GS: LT-P1      RC: None      NANO: NO      ROLE: Binder Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

MAMMALIAN	EU - R-phrases	R21 - Harmful in Contact with Skin
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
EYE IRRITATION	EU - R-phrases	R41 - Risk of serious damage to eyes
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life M = 10
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Maximum % ingredient range present in product formulation. Chemical Trade Name and CAS# information is undisclosed due to it being considered proprietary information by the supplier to Imperial Paints.

XANTHAN GUM

ID: 11138-66-2

%: 0.0200      GS: LT-UNK      RC: None      NANO: NO      ROLE: Thickener Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Maximum % ingredient present in product formulation.

**AMMONIUM HYDROXIDE**

ID: 1336-21-6

%: 0.0100      GS: LT-P1      RC: None      NANO: NO      ROLE: Coating Additive Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

SKIN IRRITATION	EU - R-phrases	R34 - Causes burns
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rr&Rs) - irritant-induced & sensitizer-induced
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Maximum % ingredient present in product formulation.

**UNDISCLOSED**

%: 0.0000 - 0.0100      GS: LT-P1      RC: None      NANO: NO      ROLE: Binder Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
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SUBSTANCE NOTES: Maximum % ingredient range present in product formulation. Chemical Trade Name and CAS# information is undisclosed due to it being considered proprietary information by the supplier to Imperial Paints.

### 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 CONTENT**

**ASTM D-4236 Certification of Toxicological Risk Assessment for Decorative and Artistic Paints**

CERTIFYING PARTY: Self-declared  
APPLICABLE FACILITIES:  
CERTIFICATE URL:  
CERTIFICATION AND COMPLIANCE  
NOTES:

ISSUE DATE: 2012-08-30      EXPIRY DATE: 0000-00-00      CERTIFIER OR LAB: ASTM International

**VOC EMISSIONS**

**U.S. EPA SW-846 Method 8260B (VOC); EPA SW-846 Method 8015C (Organics); EPA Method 8315A (Formaldehyde). SM 2540G (Volatile Solids)**



CERTIFYING PARTY: Self-declared  
APPLICABLE FACILITIES:  
CERTIFICATE URL:  
CERTIFICATION AND COMPLIANCE  
NOTES:

ISSUE DATE: 2014-03-05

EXPIRY DATE: 0000-00-00

CERTIFIER OR LAB:

**OTHER** **BS-EN-71-3 Test for Heavy Metals in Paints and Coatings for use in Children's Toys**  
CERTIFYING PARTY: Self-declared **ISSUE DATE: 2012-01-25** **EXPIRY DATE: 0000-00-00** **CERTIFIER OR LAB:**  
APPLICABLE FACILITIES:  
CERTIFICATE URL:  
CERTIFICATION AND COMPLIANCE NOTES:

## 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.

## Section 5: General Notes

In preparation of the this HPD, Imperial Paints worked with an independent second party to obtain full ingredient formulation disclosure to address both intentionally added ingredients and residuals/impurities. It has been determined that no residuals or impurities are present in the ECOS EMR Shielding Paint formulation above 100 ppm (0.01%).



## MANUFACTURER INFORMATION

MANUFACTURER: Imperial Paints, LLC

CONTACT NAME: Daniel Holder

ADDRESS: PO Box 489  
Fairforest, SC 29336  
USA

TITLE: Regional Sales Manager

PHONE: 866-587-3586

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## 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) BM-2 Benchmark 2 (use but search for safer substitutes)

**LT-1** List Translator Likely Benchmark 1

**BM-1** Benchmark 1 (avoid - chemical of high concern)

**LT-UNK** List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

**BM-U** Benchmark Unspecified (insufficient data to benchmark)

**UNK** 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

**Nano** Composed of nanoscale particles or nanotechnology

### Declaration Level

**Self-declared** Manufacturer's self-declaration (First Party)

**Independent Lab** Manufacturer's self-declaration using results from an independent lab

**Second Party** Verification by trade association or other interested party

**Third Party** Verification by independent certifier

**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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.