

## Section 1: Summary

## Basic Method / Product Threshold

### CONTENT INVENTORY

#### Inventory Reporting Format

- Nested Materials Method
- Basic Method

#### Threshold Disclosed Per

- Material
- Product

#### Threshold level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

#### Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

**Characterized**  
Percent Weight and Role Provided?  Yes  No

**Screened**  
Using Priority Hazard Lists with Results Disclosed?  Yes  No

**Identified**  
Name and Identifier Provided?  Yes  No

### CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

Number of Greenscreen BM-4/BM3 contents..... 1  
Contents highest concern GreenScreen  
Benchmark or List translator Score..... LT-P1  
Nanomaterial..... No

#### INVENTORY AND SCREENING NOTES:

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

RAKOLL® RK-8490 [ **UNDISCLOSED** **BM-4** **UNDISCLOSED** **LT-UNK**  
**UNDISCLOSED** **LT-UNK** **UNDISCLOSED** **LT-UNK** | **CAN** **UNDISCLOSED** **LT-P1** | **END** **UNDISCLOSED** **LT-P1** | **MAM** | **EYE** | **END** **UNDISCLOSED** **LT-UNK**  
**UNDISCLOSED** **NoGS** ]

### VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 11 Regulatory (g/l): 24  
Does the product contain exempt VOCs: No  
Are ultra-low VOC tints available: No

### CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC content: VOC/HAP Product Data Sheet

### CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared  
VERIFIER:  
VERIFICATION #:

SCREENING DATE: 2017-12-14  
PUBLISHED DATE: 2017-12-18  
EXPIRY DATE: 2020-12-14

## 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](http://www.hpd-collaborative.org/hpd-2-1-standard)

### RAKOLL® RK-8490

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES:

OTHER PRODUCT NOTES:

#### UNDISCLOSED

#: **40.0000 - 70.0000** GS: **BM-4** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This component is considered proprietary and is not disclosed due to confidentiality.

#### UNDISCLOSED

#: **30.0000 - 60.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This component is considered proprietary and is not disclosed due to confidentiality.

#### UNDISCLOSED

#: **1.0000 - 5.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This component is considered proprietary and is not disclosed due to confidentiality.

#### UNDISCLOSED

#: **1.0000 - 5.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: This component is considered proprietary and is not disclosed due to confidentiality.

**UNDISCLOSED**

#: **0.1000 - 1.0000**      GS: **LT-P1**      RC: **None**      NANO: **No**      ROLE: **Thickening Agent**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: This component is considered proprietary and is not disclosed due to confidentiality.

**UNDISCLOSED**

#: **0.1000 - 1.0000**      GS: **LT-P1**      RC: **None**      NANO: **No**      ROLE: **Binder**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: This component is considered proprietary and is not disclosed due to confidentiality.

**UNDISCLOSED**

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

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

SUBSTANCE NOTES: This component is considered proprietary and is not disclosed due to confidentiality.

**UNDISCLOSED**

#: **0.1000 - 0.5000**      GS: **NoGS**      RC: **None**      NANO: **No**      ROLE: **Defoaming Agent**

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

### Section 3: Certifications and Compliance

*This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.*

#### VOC CONTENT

#### VOC/HAP Product Data Sheet

CERTIFYING PARTY: Self-declared	ISSUE DATE: 2017-01-	EXPIRY DATE:	CERTIFIER OR LAB: H.B. Fuller
APPLICABLE FACILITIES: All active manufacturing facilities within H.B. Fuller	19		Company
CERTIFICATE URL:			

CERTIFICATION AND COMPLIANCE NOTES: Product Name: Rakoll® RK-8490 VOC\* (weight %): 0.1% Solids (weight %): 48% Specific Gravity: 1.08 Density (lb/gal): 9.0 lb/gal Hazardous Air Pollutants (HAPs): No reportable content \*The VOC information presented here is calculated based on the theoretical VOC contribution of each ingredient in each formulation. The VOC information for each ingredient is either measured using EPA Method 24 (40 CFR 60 Appendix A), or per composition data as reported to us by the supplier (40 CFR 63.827(b)). Variations in actual application and cure methods may lower reportable VOC emissions significantly.

### 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 that this information is based on data provided to H.B. Fuller by our raw material suppliers. More information on our product can be found on the product Safety Data Sheet (SDS).

### Section 6: References

#### MANUFACTURER INFORMATION

MANUFACTURER: **H.B. Fuller Company**

CONTACT NAME: **Global Regulatory**

**KEY**

<b>OSHA MSDS</b>	Occupational Safety and Health Administration Material Safety Data Sheet
<b>GHS SDS</b>	Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**Hazard Types**

<b>AQU</b> Aquatic toxicity	<b>GLO</b> Global warming	<b>PHY</b> Physical Hazard (reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive toxicity
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple hazards	<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>OZO</b> Ozone depletion	<b>LAN</b> Land Toxicity
<b>GEN</b> Gene mutation	<b>PBT</b> Persistent Bioaccumulative Toxic	<b>NF</b> Not found on Priority Hazard Lists

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible Benchmark 1
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator Likely Benchmark 1
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> Unknown (no data on List Translator Lists)
<b>BM-U</b> Benchmark Unspecified (insufficient data to benchmark)	

**Recycled Types**

<b>PreC</b> Preconsumer (Post-Industrial)
<b>PostC</b> Postconsumer
<b>Both</b> Both Preconsumer and Postconsumer
<b>Unk</b> Inclusion of recycled content is unknown
<b>None</b> 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.*