

**CLASSIFICATION:** 09 Finishes

**PRODUCT DESCRIPTION:** Premium micronized mineral filler made from 100% recycled soda-lime glass. FileX is an ultra bright, chemically inert and durable powder with low refractive index. Product can be used in water-based, solvent or solids coatings.

**Section 1: Summary**

**Nested 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**

Residuals/Impurities Considered in 1 of 1 Materials

Explanation(s) provided for Residuals/Impurities?  
 Yes  No

*All Substances Above the Threshold Indicated Are:*

**Characterized**  Yes Ex/SC  Yes  No  
*% weight and role provided for all substances.*

**Screened**  Yes Ex/SC  Yes  No  
*All substances screened using Priority Hazard Lists with results disclosed.*

**Identified**  Yes Ex/SC  Yes  No  
*All substances disclosed by Name (Specific or Generic) and Identifier.*

**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**

**GROUND GLASS POWDER [ GLASS / MINERAL FIBER (POST-CONSUMER RECYCLED) LT-UNK ]**

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

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-UNK

Nanomaterial ... No

**INVENTORY AND SCREENING NOTES:**

This HPD was created using the Nested Method/Product Threshold.

**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: Inherently non-emitting source per LEED®

VOC content: Inherently non-emitting source per LEED®

Recycled content: GreenCircle - Recycled Content

**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: 2019-09-04

PUBLISHED DATE: 2019-09-04

EXPIRY DATE: 2022-09-04



## 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 2.1.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-1-standard](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

### GROUND GLASS POWDER

#: 99.90 - 100.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: The recycled soda-lime glass used (bottle or plate) is cleaned to a patent-pending process that removes all substantial organics, ceramics, paper and other contaminants. Any residual or impurity is below the declared threshold as confirmed on LOI and elemental analysis

OTHER MATERIAL NOTES: CAS 65997-17-3, Glass powder - not otherwise regulated

### GLASS / MINERAL FIBER (POST-CONSUMER RECYCLED)

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-09-04

#: 99.90

GS: LT-UNK

RC: Both

NANO: No

ROLE: Filler

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Glass is an amorphous solid with following general composition:

Silicon Dioxide (SiO2) 71.8% (full amorphous silica)

Sodium Oxide (Na2O) 12.9%

Calcium Oxide (CaO) 10.2%

Magnesium Oxide (MgO) 1.4%

Aluminum Oxide (Al2O3) 1.3%

Potassium Oxide (K2O) 0.34%

Iron Oxide (Fe2O3) 0.07%

## 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

### Inherently non-emitting source per LEED®

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **Self**

APPLICABLE FACILITIES: **Moncton Manufacturing Facilities, Moncton, NB, Canada**

**09-04**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **As per LEED: "Products that are inherently non-emitting sources of VOC's (stone, ceramic, powder- coated metals, plated or anodized metal, glass, concrete, clay brick, and unfinished or untreated solid wood) are considered fully compliant without any VOC emissions testing if they do not include integral organic-based surface coatings, binders, or sealants.**

### VOC CONTENT

### Inherently non-emitting source per LEED®

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **Self**

APPLICABLE FACILITIES: **Moncton Manufacturing Facility, Moncton, New Brunswick, Canada**

**09-04**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **As per LEED: "Products that are inherently non-emitting sources of VOC's (stone, ceramic, powder- coated metals, plated or anodized metal, glass, concrete, clay brick, and unfinished or untreated solid wood) are considered fully compliant without any VOC emissions testing if they do not include integral organic-based surface coatings, binders, or sealants.**

### RECYCLED CONTENT

### GreenCircle - Recycled Content

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **Self**

APPLICABLE FACILITIES: **Moncton Manufacturing Plant, Moncton, New Brunswick, Canada**

**09-04**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **The primary source of soda-lime glass is from material recovery facilities and bottle redemption programs in the Atlantic provinces of Canada. All of the glass from these facilities is post-consumer recycled. There is a secondary stream of pre and post consumer soda-lime plate glass collected from approved facilities.**

## 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

Filex is a family of micronized premium powders manufactured primarily from post-consumer waste bottle glass and plate glass. Some controlled pre-consumer clean plate glass can be used. The primary products produced include Filex 4, Filex 7, Filex 10 and Filex 12. The only difference between said designations is mean particle size and distribution. The two primary glass sources are from bottle redemption programs and material recovery facilities. Other sources may include recyclable drop-off facilities and curbside glass pick-up programs. Rayan Environmental separates out any contaminants in the glass collection process. The raw glass used in the Filex family is cleaned using rigorous methods to ensure a contaminate-free, high grade supply for the size reduction process. The final size range for the powders ranges from a mean of 10 microns down to 1.5 microns. The entire process is patent-pending.



## MANUFACTURER INFORMATION

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MANUFACTURER: **Ryan Environmental Solutions**

ADDRESS: **1635 Berry Mills Rod**

**Moncton NB E1E 4R7, Canada**

WEBSITE: **www.ryanenvironmental.com**

CONTACT NAME: **Craig Szabo**

TITLE: **Director of Operations and Product Development**

PHONE: **15068580800**

EMAIL: **craig.szabo@ryanenvironmental.com**

## KEY

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**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.*